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FROM THE

UNITED STATES GOVERNMENT



REPORTS OF THE DEPARTMENT OF THE INTERIOR

FOR THE FISCAL YEAR ENDED JUNE 30

1918

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VOLUME II
INDIAN AFFAIRS
TERRITORIES



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REPORT OF THE COMMISSIONER OF INDIAN AFFAIRS

1

REPORT OF THE COMMISSIONER OF INDIAN AFFAIRS.

DEPARTMENT OF THE INTERIOR,
OFFICE OF INDIAN AFFAIRS,
Washington, D. C., September 30, 1918.

Sir: I have the honor to submit this, the eighty-seventh, annual report of the Bureau of Indian Affairs, for the fiscal year ended June 30, 1918.

THE INDIAN'S WAR ACTIVITIES.

During the last fiscal year the affairs of the Indian Bureau have been interwoven with the problems of the war and its grave pending issues. We have done nothing without considering its relation to this overshadowing situation. We have released from the Indian Service, for transfer to more direct war duty, every employee who could reasonably be spared, observing the principle that no man who can be replaced is indispensable. We have endeavored to give the Indians a clear understanding of their relation to the war and their part in its prosecution, whether at home or abroad, and have seen them fall in line with marked intelligence and inspiring patriotism for service in every kind of activity to which the white man responds.

They have signally honored themselves and their country by entering some branch of the Army or Navy; by offering their money in war loans to the Government; by increasing the product of the country's foodstuffs and complying with the public food regulations; by swelling the ranks of wage earners in periods of labor depletion; by generous and eager contributions in money and service to every phase of organized relief.

As TO SEPARATE INDIAN ORGANIZATIONS.—Early in the period covered by this report, I dissented from proposed encouragement of separate units of Indian soldiers in the Army as not in harmony with our plan for developing the Indian's citizenship and said:

We want to make him a vital part of our national life and have him feel that he is, but I doubt if that thought can be properly upheld by encouraging a racial recognition in defense of a common cause. It is increasingly apparent that our American civilization is to have a profound influence upon European conditions. It may yet be the leading power to rescue some of the Old World peoples from medievalism. If so, we must retain in its definition larger than anything else, the word "Unity."

I want the Indian to go into this conflict as the equal and comrade of every man who assails autocracy and ancient might, and to come home with a new light in his face and a clearer conception of the democracy in which he may participate and prosper. I

feel, therefore, that his logical and inevitable place is shoulder to shoulder with the white man, that his rights and duties are there, and that our obligations are due him in that relation to the end that he shall receive under like discipline the same respect and consideration given to other soldiers. I think we should give special care to the maintenance of this military relation and see to it that the young Indian soldier feels no discrimination. I think the best military status for the Indian is with the organizations of white soldiers, where under the usual Army discipline the benefits are measurably reciprocal, with a definite educational advantage to the Indian. The military segregation of the Indian is altogether objectionable. It does not afford the associational contact he needs and is unfavorable to his preparation for citizenship.

My personal observation when visiting cantonments and reports to me show that the Indians are making remarkably good soldiers, and I am gratified to learn that they are placed without regard to the fact that they are Indians. This mingling of the Indian with the white soldier ought to have, as I believe it will, large influence in moving him away from tribal relations and toward civilization.

From the standpoint here suggestively stated, to which other reasons might be added, I regard it as inadvisable to call a council for the purpose of arousing sentiment by agitational appeals to the Indians in the direction of separate military units, but that on all reservations and at Indian schools on and off reservations throughout the service and among Indians everywhere, the spirit of patriotism and loyalty should be taught and emphasized, and that all Indians acceptable under military regulations should be encouraged to enlist in some organization of the regular establishment.

REGISTRATION.—The registration arranged for June 5, 1918, of Indians who became 21 years of age since June 5, 1917, was conducted as that of the preceding year by cooperation of the superintendents with the State authorities, which proved to be the most expeditious and least expensive, and was acceptable to the Provost Marshal General, as expressed in the following paragraph from his letter to me of May 2, 1918, outlining the necessary preliminaries:

The rules for conducting the registration of Indians are not to be inflexible, and much will be left to your discretion and judgment. Remembering the effective manner in which your organization conducted the registration last June, it is the disposition of this office to leave the details of the forthcoming registration entirely in your hands.

The registration of the Indians has been generally very successful, notwithstanding the currency of one or two news items to the contrary, which may never be fully overtaken by corrected reports. There has been practically no resistance, except through misunderstanding, and no conditions have arisen obstructive to the intent of the conscription act.

Considerable uncertainty arose in connection with the first registration as to what constitutes Indian citizenship, and while, usually, the question of citizenship is an individual one involving a consideration of the facts in each case, the situation was later much clarified by furnishing superintendents with the following general rules for use in doubtful cases:

I. Indians whose trust or restrictive fee patents are dated prior to May 8, 1906, are citizens by virtue of section 6 of the act of February 8, 1887 (24 Stat. L., 388).

II. Indians whose trust or restrictive fee patents are dated May 8, 1906, or subsequent thereto and who have received patents in fee for their allotments are citizens by virtue of said section 6 of the act of February 8, 1887, as amended by the act of May 8, 1906 (34 Stat. L., 182).

III. Section 6 of the act of February 8, 1887, both before and after its being amended by the act of May 8, 1906, provided that:

"Every Indian born within the territorial limits of the United States who has voluntarily taken up, within said limits, his residence separate and apart from any tribe of Indians therein, and has adopted the habits of civilized life, is hereby declared to be a citizen of the United States, and is entitled to all the rights, privileges, and immunities of such citizens * * *."

IV. The solicitor of this department has held that where Indian parents become citizens upon allotment their minor children became citizens with them, and that children born subsequent thereto were born to citizenship.

ARMY AND NAVY ACCESSIONS.—In my last annual report I could not give with much certainty the number of Indians in war service. Later a systematic effort was made to procure reliable data as to the number enrolled for active duty by enlistment and draft, which is still incomplete, but sufficient for a close approximation, and justifies an estimate of 8,000 Indians now in training or actually in some branch of the Army and Navy. Of this number approximately 6,500 are in the Army, 1,000 in the Navy, and 500 in other military It is also significant that fully 6,000 of these entered by enlistment. Moreover, it should go into the record that many Indians from our northern reservations enrolled in Canadian military organizations before the declaration of war by the United States. I am perfecting as rapidly as possible this roster, the work of which has brought me into intimate touch with many of our Indian soldiers whose letters from cantonments or abroad are full of interest and in unpretentious language sound a note of steadfast courage, optimism, and a broadened view of the great events in which they mingle. Letters reaching me from abroad show that the Indians, some of them from "blanket" tribes, are acquiring a better use of English, and even learning French. They also note the methods of foreign agriculture and the intensive economies of peasant life, and are thus students of conditions more or less applicable to their own occupations. Considering the large number of old and infirm Indians and others not acceptable under the draft, leaving about 33,000 of military eligibility, I regard their representation of 8,000 in camp and actual warfare as furnishing a ratio to population unsurpassed, if equaled, by any other race or nation. I am very proud of their part in this war. They have placed themselves in a concrete and vital relation to the Government under whose protection they live and in the administration of which they are destined to participate, and have entered a school of rugged experience that can not fail to fit them more thoroughly for the service and the competition of civil life. The day

is not beyond my vision when the brain and soul of him whose ancestors dwelt in this land before the white man dreamed of its existence shall find illustrious expression in the order and liberty and power of our national greatness.

I reluctantly withhold a detailed account of the many instances of tribal and personal patriotism and of individual valor and achievement by our Indian soldiers in the service of both Canada and the United States that came to my attention during the year, for no record here would seem fittingly impartial that did not include the hundreds of noteworthy and authenticated incidents on the reservation, in the camps, and in France that have been almost daily recounted in the public prints. The complete story would be a voluminous narration of scenes, episodes, eloquent appeal, stirring action, and glorious sacrifice that might better be written into a deathless epic by some master poet born out of the heroic travail of a world-embattled era.

LIBERTY BONDS.—Hardly less important than the man with a gun is the man with a bond. The Indians on the reservations ineligible for enlistment or draft were prompt to see the Government's financial needs in all the operations of warfare. Last year I reported that their subscriptions to the first issue of liberty bonds amounted to \$4,607,850. Subscriptions to the second issue were \$4,392,750, and to the third issue \$4,362,300. They are only such results as are known to the various field superintendencies and reported by them. However, I have enough reliable information from numerous sources to show that many subscriptions were made through banking channels in localities where the Indians quite generally have acquired citizenship or have no fiscal relation with a reservation, official report of which did not reach this bureau, and I am sure that a conservative estimate of such additions to the list would raise the grand total to \$15,000,000, or a per capita subscription of approximately \$50. It is true that the moneys thus invested were largely individual trust funds drawing a rate of interest less or nor exceeding, the rate of the bond, but the subscriptions were in accordance with the wishes of the Indians and were a true index of their sentiment. The equivalent of a \$50 liberty bond for every man, woman, and child of the Indian race in the United States at the close of our first year in the war needs little comment. It speaks for itself. It writes itself indelibly into American history and into · the annals of all progress; it is an expression of patriotic allegiance to the right side of a contest involving the fate of humanity, as extraordinary as it is gratifying.

In all these transactions I have been amazed by the wonderful and spontaneous fidelity of the Indian to the highest welfare of the Nation, as well as his ready appreciation of a desirable investment.

The promise of thrift and the saving habit as a coordinate feature of his response to our present colossal needs is a most encouraging evidence of growth toward the principle of self-support, so essential to his stability and progress as a citizen. I have had occasion to say that man has no stronger element, when properly developed, than the disposition to acquire property, own a home, and be a substantial factor in society, and I hail this growing manifestation in Indian life as a sure basis for the strong and trustworthy citizenship to which our efforts are directed.

RED CROSS WORK.—The cooperation of the Indians, young and old, with the Red Cross and other agencies for war relief developed during the year into a most important factor of philanthrophy. In many instances the Indians inaugurated with but little outside assistance, lively campaigns for funds through social gatherings, auction sales of contributions, and various community activities.

The reports coming from the different Indian schools and field workers show little more than a fragment of the relief work done by the Indians, for the reason that large numbers in localities near towns and white communities affiliated with local chapters in gifts of both money and service, of which only estimates are at hand, but it is known that on many reservations practically every adult subscribed a Red Cross membership fee or more. The actual data received justifies a report, in round numbers, of 10,000 Indian Red Cross memberships, 100,000 hospital garments, knitted, and miscellaneous supplies. Some 500 Christmas boxes were sent from the boarding schools, where the students are very proud of their soldier representatives. The larger schools collected "Students' Friendship War Funds" aggregating thousands of dollars, and in many cases coordinated their relief activities with the vocational outlines of the course of study.

Although it would be gratifying to swell the above estimates, as assuredly could be done, with complete data, I am content with the prevailing situation which arises from the fact that the Indians are largely mingling their efforts with the whites and are glad to do their work for the great good it accomplishes rather than from a spirit of racial emulation. There is thus the same union of purpose, opportunity, and service in the doing of great and unselfish things that prevails in the fighting ranks and that knits together all our higher interests as Americans.

The limits of this report could be easily filled with matters of relevant interest. A few incidents only are given.

The championship in knitting has been generally conceded to Mrs. Sarah Valandre, an Indian of a South Dakota reservation, who began a soldier's sweater at 2 p. m. and completed the garment, which was an excellent piece of work, at 10.30 the same evening.

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The Indians often write letters to the superintendent, accompanying their donations. One of them begins: "I inclose here \$5 to the American Red Cross, the great organization of mercy whose activities know no bound in territory, no limit in service."

A superintendent in Utah reports 511 subscribing members among the Ute Indians, with total subscriptions of \$4,980. At a public gathering on this jurisdiction, among the scores who lifted hands as contributors, was an old woman of 75 years who spread all fingers of one hand. The superintendent, understanding that one finger meant a sign to give \$10, recorded her for \$50. A few days later, when she limped to the agency to fill out her Red Cross card, she was indignant at the amount and explained through an interpreter that she meant \$500. "But," said the superintendent, "you have only \$513 to your credit." Quickly came the answer, "\$13 left? That's enough for me." Another superintendent reports: "Three Indians have each contributed a steer which sold for \$70, a total of \$210, to the Red Cross."

On a small reservation far north, where the winters are long and severe and the Indian must struggle for the necessaries of life, more than \$1 per capita for every adult was paid in cash for the Red Cross and other war-relief purposes. In the far Southwest, where the parched desert gives scant returns and sheep raising is the chief means of support, many of the Indians have each promised a fleece of wool for the Red Cross, and the superintendent plans the spinning of this wool and knitting it into socks, sweaters, etc., by the Indian women. In a Montana district, where the Indians are nearly all fullbloods, they voluntarily held meetings and each one who had a growing wheat crop promised to donate one sack of wheat for war-relief work. On another reservation where the Indians are very poor and have little ready money they donated an abundance of handsome bead work and other curios to be sold for the Red Cross.

One of the smaller schools in Oklahoma reports:

Our school has affiliated with the county chapter of the Junior Red Cross and has a working organization of 176 members, being the total enrollment of the school. Wednesday evening of each week and such other time as can be spared is devoted to making Red Cross supplies.

The lady superintendent of one of the boarding schools for girls of the Five Civilized Tribes in Oklahoma on her request was authorized to introduce Red Cross work as a regular feature of domestic-science training and has accomplished splendid results. From her full report the following is gleaned:

Our girls are deeply interested in all war work and respond so readily to our requests for additional garments. Several supervised periods are given the girls each week to insure a certain output of knitted articles. Then the interest is kept up by means of parties held by the various teachers, and at which time Hooverized refreshments play an important part.

The very small girls knit up the scraps of yarn into refugee caps, afghan squares, etc. Also they utilize the scraps from the hospital garments making quilt blocks. Larger scraps are used for small underskirts for the refugees. The lesson in thrift in this one feature is invaluable to us. Gun wipers have been cut by the hundred. Prizes have been offered for activities to stimulate interest.

Small Red Cross dolls have been made and sold for our fund. These the children enjoyed making and selling. Each month children write letters to their guardians, in which they send report cards. They ask earnestly that money be sent to them that they may take part in this great war. Their letters show their enthusiasm and patriotism.

We are reading "Red Cross Stories," and our children will all leave us with a good general knowledge of how the Red Cross began, its struggle and success. This line of thought is kept before our girls and teachers continually and if in no other way than by absorption, they will surely get the spirit of and necessity for this war work.

We are not willing for our girls to go back home and sit with folded hands all summer, so the plan of giving personal letters of introduction to girls efficient with the needle to be handed the heads of Red Cross chapters in their community will be carried out.

Regular flag salutes are given on the campus and in the dining room. The Red Cross has strengthened our heads, hearts, and hands, and has brought to us just the lesson we have so badly needed—the lesson of service and thrift.

An interesting account comes from a northern Minnesota reservation, where it is believed the first Indian Red Cross auxiliary was started in the spring of 1917, in the course of which the president of the auxiliary says:

There was no spectacular coming of hundreds of Indians to unite in the then almost unknown work of the Red Cross. One Indian woman was present at the first meeting and has since been most faithful in her efforts. Week after week the little band of women met and carried on the work assigned them. Week after week the cautious Indian women came and took part in the work, until at the end of nine months three-fourths of the members are Indians. The auxiliary numbers 48, and this from a community of less than a hundred adults. Some of these women have walked to the weekly meeting place across the ice from Old Agency when the temperature was 20° below zero. They have sewed on hospital shirts and socks and learned to knit the various garments just as their white sisters of the cities have done. The most remarkable and encouraging part of the Indian work is that it has been one of increasing personal interest and continued activity.

One evening recently an Indian and his wife, living 17 miles away, came to the home of the treasurer and inquired about the work being done, the woman bringing her dollar for membership, saying, "I want to do something for my country."

I can not refrain from this reference to the interest of the Indians in Red Cross work, although it can give little more than an intimation of their wide-spread and open-hearted response to the sacred appeal which more than anything else tells the difference between the civilization of a free people and the barbaric cruelties of autocracy. Among the compensations coming to the Indian from the war is the one he has already accepted, viz, that the great principles and ideals that are worthy of a trained warrior's daring are one with the divine impulse to do good and help others; that the cool bravery of his son in the trench and the gentle ministry of his daughter in a Red Cross hospital are the sublime coordination of human service to the highest end.



FOUR-MINUTE SERVICE.—Early in February, 1918, I issued instructions to all superintendents to participate so far as possible as four-minute men in the campaign for the sale of war savings certificates, furnishing them with appropriate bulletins and literature. This was done in cooperation with the Committee on Public Information whose représentatives found it difficult to reach many of our reservations and schools situated some distance from the towns where they were scheduled to speak. The plan was generally successful and developed much interest among the Indians, both adults and the children in the schools, and the sale of war savings stamps grew into large proportions among those of limited means. Stamps were in many instances purchased from individual and unrestricted funds representing the actual earnings of the purchasers who thus evinced a special inclination to save and acquire an interest-bearing investment. They were usually purchased through the postmaster, or other agency provided for their sale, and held by the Indians themselves. It is not practicable to submit a definite report of these sales, but returns from the field service generally show a widespread and growing demand for "baby bonds," and a feeling that their purchase is a patriotic "bit" within the reach of all.

COOPERATIVE AGRICULTURE.—It was our purpose throughout the year to place all agricultural and industrial pursuits of the Indians upon a war-winning basis, and in correspondence with superintendents upon spring farming operations for 1918, I said in part:

I assume that you have already done much preliminary work among the Indians for the coming planting season, and feel sure that you will join me in the purpose to make last year's campaign for increased production on Indian land only the beginning of a much more successful one this year. The results of the previous year were very gratifying, but the demands upon us have increased. The industrial welfare of the Indian is itself a perpetual call to improve upon each preceding year; not by attempting too much, but by handling intelligently and intensively as much land as means and equipment will justify. I urge vou to impress upon the Indians that anything less than this is not successful farming. Keep it before them as convincingly as you can that the farmer or stock grower who does well is always trying to do a little better.

Again, our international demands promise to be much more extraordinary than hitherto. Our soldiers are going to the front. They, with the armies and all the people of our allies, must be fed. Our fields are not overrun and laid waste by the enemy. The yielding capacity of our acres should be larger than ever. The troops we send abroad increase rather than lessen our obligations to produce subsistence for export. We are this year confronted by a more exacting emergency than ever before and every productive energy should respond to the utmost. The loyalty of the Indians has called forth the strongest praise everywhere. Thousands of them have entered active military service. I can not doubt that those on the reservations are equally patriotic and will give full proof of it by making every unused acre of land a war-winning factor in addition to supplying food and forage for home supply. Agriculture, industry, labor everywhere must lift this year every ounce that it can carry, not only for the actual and physical needs of the present, but for ideals and principles

sacred and essential in our national life, and the Indians must and will gladly do their part.

Therefore, I urge with increased emphasis that your season's campaign be well and aggressively organized. I need hardly add to your experience the suggestion for an unfaltering follow-up plan of work and supervision, the pivotal features of which will, of course, consist (1) in getting the employees and Indians to see the situation as it is, and in arousing their responsibility as faithful promoters of their own interests and as patriotic Americans willing to match at home the loyal zeal and purpose of those on the sea or battle fields of Europe, and (2) by leaving nothing practicable undone in providing the necessary means and equipment, such as seeds, implements, and other supplies, for accomplishing the desired result.

Notwithstanding the war loss to our Service of many valuable farmers and stockmen, causing a shortage of supervision still unsupplied, there was last year a large increase of acreage cultivated by the Indians, often doubling that of the preceding year. Many also made a beginning in a small way, producing enough for their own needs and a little more. Many others exchanged their wandering habits for more settled farming purposes. A quickened impulse for home building appeared on many reservations. Greater preparation than ever was made for exhibits at Indian and State fairs and interest in the canning and preservation of vegetables greatly increased. The Indians became conspicuously more interested in the better methods of stock growing, the improvement of breeds, proper pasturage, winter feeding, and protection, and adequate water supply. Many of them are the rivals of the most successful white stock growers. Although handicapped in some sections by severe drought, the Indians last year responded with splendid interest and unprecedented results that show not only a steady progress but motives of aroused patriotism and a comprehension of the supreme war demands upon all our productive resources.

THE LABOR SITUATION.—In order to cooperate to the fullest extent with the aims and efforts under Federal direction for providing adequate labor for all lines of productive employment, I brought the matter to the attention of all reservation superintendents early in April, and said, in part:

Sufficient labor for all our productive and industrial demands is an instant and growing need. The casual reader knows how all belligerent nations abroad have been caught in the clutch of the labor problem; how their women and children, their old folks and cripples have had to help farm the fields and work in factories; how adjacent neutral countries are pinched by the scarcity of toilers in domestic activities. We are now facing a similar situation, and the causes are clear without graphic description. We must fill the places of our sturdy fellows who are in the trenches or on their way there. We must increase immensely our normal products for food and clothing to satisfy export demands, besides creating extraordinary supplies for actual warfare. These things are obvious without statistics. We face a labor shortage in certain areas and occupations and we should drive a wedge of workers into that condition wherever it is found. The Indian Service must help do this as far as possible.

As should be expected, agriculture will feel first and most the shrinkage in labor, for in addition to its contributions to the Army and Navy, many farm laborers are attracted to industrial centers by higher wages. Farming enterprises in various sections need Indian labor, and the Indians, if not profitably occupied with their own allotments or otherwise, need this employment. They need any employment that will associate them with the white man's operations in farming and live-stock interests or other successful vocations. They should also have every encouragement to respond from patriotic motives to the labor demands of the country.

It is very important that there be no idlers or intermittent workers among the able-bodied adult Indians this year when every ounce of productive energy is needed as a war-winning factor, and I feel assured that I can count on your prompt cooperation in this matter with a view of determining approximately the number of Indians on your reservation who can be spared for work in other localities and the probable number of such Indians who can be induced to accept employment at reasonable wages. In arriving at your estimates, I do not want you to overlook the importance of our duty to induce the Indian to cultivate his own land, engage in the raising of stock, or in some other productive occupation.

Having in mind that at most of the nonreservation schools, a number of which give the advanced courses in vocational training, there are considerable numbers of students sufficiently mature to perform manual labor, I addressed the superintendents of these jurisdictions as follows:

I have recently requested reservation superintendents to make special effort in the direction of having all surplus Indian labor employed as far as possible throughout the coming season of planting and harvesting, and desire your earnest cooperation with this plan to the extent of securing employment during the vacation period for your larger students who will not be needed at home or to assist in school activities.

All full-grown or nearly mature boys and girls, if in reasonable health, should be occupied all of their vacation in some capacity that will help produce and take care of the necessities of life. It is of crucial importance that no part of this year's harvest be neglected or wasted, and wherever help is needed in the fields or homes of farmers or gardeners Indian students competent for such work should be aided in securing it unless otherwise properly occupied. Please give this matter your careful thought and organize your efforts to the end that every young man or woman shall find a busy corner somewhere during the summer.

You can not too urgently impress upon all these intelligent young Indians their present patriotic obligation to join actively the ranks of workers whose toil is indispensable to our liberties.

I hope to hear that you will be able practically to aid and direct many of your pupils, particularly the older ones, into temporary employment that will be educational to them and helpful to the cause we must make victorious.

The past year shows a comparatively low percentage of unemployed able-bodied Indians. They answered the call for labor in something of the militant spirit that in these days has become essential to American activities, and wherever there was bridge or road work, lumbering or milling, fishing, planting and harvesting, irrigation construction, cotton or hop picking, orcharding, and vegetable gardening, or anything else that had to be done on a reservation, and often far from one, the Indian was generally in evidence with few words but with dextrous hands, patient endurance, and, what has been noticeable, with a dawning comprehension that American labor everywhere is a part of our

war force. I have learned of no suspicion that the Indian ever drove spikes in a saw log or threw a wrench into any industrial machinery. I believe he is under no indictment or sentence for sabotage.

The schools quite generally gave to Indian pupils the patriotic impulse to do their part. In many instances boys of 12 years and over signed pledge cards for summer work. The outing service of girls for domestic and boys for farm work with white families greatly increased, one school reporting 300 thus employed by the end of June. The larger boys going to the beet fields, fruit farms, and other summer occupations far exceeded former records. Older students of mechanical preferences have been successful in munition plants, and some 40 or 50 were placed in the Hog Island shipbuilding service. A letter from one of the large motor companies to our Supervisor of Employment closes as follows: "I wish to thank you at this time for the valuable assistance you have been to me, as all the boys are turning out to be first-class men and steady." "First-class men and steady" has the right ring. It tells the product we covet for our Indian schools. It answers well the Nation's need in times of stress and peril.

Public Food Regulations.—In view of the extraordinary undertaking of the Federal Food Administration to handle and control the whole question of foodstuff supplies as related to our domestic and foreign demands, and to do it very largely by persuasion and appeal to the intelligent patriotism of the country, I beg to submit in full my Circular Letter, of April 13, 1918, in cooperation therewith.

To Superintendents:

From the day the United States entered the war I have urged an increased production of foodstuffs at all Indian schools and on all reservations and have recently sought greater cooperation with the Federal Food and Fuel Administrations. I desire now to give even greater emphasis to the necessity for saving and the elimination of waste.

This year may not end the war; it may last much longer. In any event, there must go on persistent team work in intensive production and simplified consumption—the greatest yield and the utmost saving. Investigation has clearly shown that by a frugal, yet fully health-supporting use of foods, and a radical reduction of waste, we can maintain our national vigor in all lines of work and add enough to the home supplies of our allies to give them the energy they need for work and warfare. If we who remain, support with loyal efficiency the magnificent man-power going abroad, we will keep the world fit to live in. But we must get the feeling in every heart beat that the war is more than a distant danger; that the din of battle at our doors would not be more real and threatening.

Reliable estimates gave the supply of wheat in our country's mills and elevators on March 1 as 20,000,000 bushels less than one year previous and show that existing stocks of flour were much below 50 per cent of the normal quantity needed until July 1. The 90,000,000 bushels of wheat promised our allies between January 1 and July 1 is their minimum need, and we dare not curtail it. Some of the States have successfully substituted more than 50 per cent of other grains and vegetables for wheat, and the food scientists declare that the country generally can thrive on a fifty-fifty menu.

It is now well known that the consumption of our food staples, wheat and meat, can be reduced by using substitutes which are equally nourishing but not suitable for export, and the present emergency tells us that we must have "wheatless" and "meatless" days, if we expect to have warless days.

The Food Administration has given exhaustive study to the whole question of food supply and consumption as a war-winning proposition and, in cooperation with the Department of Agriculture, has put out in simple and complete form information for following a "saving schedule" in nearly everything we eat and yet keeping well and energetic on a properly balanced diet. It has issued a war cook book, pamphlets on war economy and food, and a number of valuable bulletins and leaflets covering in a practical manner the preparation and serving of the various substitutes for wheat and meat with special reference to maintaining the health of growing children and the working vigor of adults, including also timely lessons in the use of scraps and leftovers. The Administration has told the country things of incalculable worth in its eating and drinking, things as good for peace as for war. You will find in its publications the requisite instruction as to the kind and preparation of substitutes and their nutrient strength with the value and best food combinations of many kinds of grains and vegetables. Some of our Indian schools are reproducing this information in their publications, and more of them should do so. I am informed that each State college has an official designated to give war-food instruction and suggest that you avail yourself of this assistance wherever practicable.

I feel that the Indian Service should get into closer accord with this great movement authorized by law and strongly sanctioned by the President. With this circular will go to you samples of information for public guidance, and you are urged to cooperate with your State food administrator and secure such supplies and instructions as will bring effective results within your jurisdiction. The Administrator's suggestions should be followed in all school kitchens and dining rooms and at the mess tables of all employees so far as local conditions and the maintenance of health will permit.

The Food Administration is giving strict attention to health needs in its dietary régime, as a study of its prescribed munus with their nutritive properties will show. It is also furnishing lessons in war-time food problems suitable for high schools which should be of supplemental value to our vocational work in home economics. Some of our schools are now doing excellent work closely in line with the Administration's orders. Even in such little things as scrap savings from the tables, organized competitive work is eliminating waste and training the girls for practical "bits" in housekeeping.

This is to be the year for school war gardens the country over. Let us be in the front rank for all such work. This year we should plan and labor for not only the fullest bounty of the soil on every school farm and garden and every Indian's allotment, but we must care for the harvest with scrupulous diligence. Our canning, drying, and preservation of fruits and vegetables must have greater attention than ever. Our protection of crops and the feeding of stock must show the minimum of wastage. Every kitchen and root cellar, every silo and feed lot must be a war-winning auxiliary. We must make a working maxim of the fact that a weekly saving of a pound of bread for each person in the United States will increase our annual wheat exports a hundred million bushels. This is the year to translate every pulsation of patriotism into activity that produces and conserves.

It is quite as important to save as it is to produce; in fact waste involves loss of energy as well as expense. Conditions over which we have no control may prevent production, but waste is preventable and should not be permitted or tolerated; it is inexcusable. I am sure that much can be accomplished by farmers, field matrons, physicians, day-school teachers and all workers in practical contact with the home life and activities of the Indians. The Indians, young and old, have shown willing and marvelous support of our American ideals against the mad challenge of despotism

and they will under wise counsel respond to our plan for increased products and reorganized consumption. The very stress and tragedy of these days may be turned to their advantage by teaching them how to save, how to take care of the small things, how to value thrift, how to lay up for the future, how to be provident and happy in temperate and industrious living. The program thus far outlined by the Food Administration is not oppressive. It is rather educational toward sane and simplified living. We should get behind it with complete loyalty. Superintendents should see that traders comply with it. Where flour mills are in operation on reservations, superintendents should give careful attention to the output in order that the food policy of the Government may be fully supported.

In all this work it is well to remember the warning from eminent authorities that the American as a rule eats too much, that as a people we would be healthier, stronger, and more effective in accomplishment, if more frugal in our eating. We eat beyond our

physical requirements and suffer corresponding injury.

Our system of purchasing supplies may, under contracts now closed, prevent complete adjustment of rations to the food regulations immediately, but for such supplies as can be carried over with entire safety, there should be made, wherever practicable, the substitutions recommended by the Food Administrator, and if funds are lacking for this compliance, you may for school purposes, draw on funds already hypothecated for salaries and other expenses, and the amount, or so much thereof as may be necessary, will be replaced from the emergency fund recently appropriated.

I desire you to give this matter your personal and prompt attention, and shall ex-

pect every employee under your jurisdiction to cooperate with you fully.

The general tenor of many responses by superintendents regarding compliance with the food regulations is indicated by the following extract:

The schools have been put on a fifty-fifty basis as to wheat products, and really a little more so. The pupils seem to enjoy the diet, and there is no question as to its wholesomeness. Waste is reduced to the minimum, and then what there is in way of unavoidable waste as to human consumption is fed to chickens and pigs, so that there is no ultimate waste, nor is there any thing left for the flies to lay eggs in.

A liberal use of food leaflets was made among the Indians who, in some localities, did not readily understand why they must purchase substitutes with certain supplies, but upon having the matter explained and finding that the same rule was applied to all white customers, they adjusted themselves to the situation and in many instances became champions of the Federal food policy.

Philosophical phases.—The war in its earlier stages was appalling in its proportions and bewildering in its possibilities. To-day we are getting its vast perspective. We are seeing ourselves in it, and glimpsing in its clearing vistas the destiny of many nations. Amidst unspeakable evil we are finding the good. From the blackness of error and falsity, white truth emerges. Moral and spiritual principles, old as eternity, have appeared because we have been searching for the good, the true, and the just. The war's necessities are creating its compensations. Many of its victories, perhaps the greatest and most enduring, are already won, not only "over there" but here and everywhere—on "no man's land" and on every man's land, and in every man's brain and soul and lifted ideals. These

victories are bringing us hard sense as well as sublime motive; they are practical because of high moral value; they are teaching us how to live and what to live for. Here in America they mean all that comes with thrift, discipline, temperance, conservation, curtailment of luxury, the peace that follows hard work for great ends, the dignity and joy of pulling together unselfishly, the inspiration to fulfill the struggling hopes of oppressed peoples. We fight, not as our enemy for conquest and subjugation, but for government by the governed and for international justice. The great moral issue voices the difference between a despotic and an altruistic spirit; the difference between Deutschland über alles and America for all.

In America we are building imperishable traditions and unifying our democratic individualism into deep, common purposes. are strengthening both national consciousness and national conscience, proving democracy's excellence and stability and commending, as a moral obligation, its liberty and justice to all governments. The supreme peril of the ages is developing not only our heroic and ambitious virtues, but all the finer and sympathetic The deeds done for freedom will throb in the breast of the world forever, and no superimagination can foretell the progress and achievement that will follow the present intensity and concentration of man's thought, whether applied to land or sea or air, or the countless activities there. The ministrations of the Red Cross and all other humanitarian agencies for relief are lifting mankind into an atmosphere of universal good will. The great movements to restore and reeducate disabled soldiers and to find for them the means for self-support that are essential to self-respect are reconstructive processes that bring to our collective life the habits of cooperation and brotherhood.

But how is the Indian related to all this? He is a part of it, actively, integrally. It is his opportunity, his education, his experience, his remaking. In the midst of the most decisive and expansive achievements of all history he is a learner of the eternal principles involved; he is a student of the rights of individuals, of nations, and of international ethics. He is in contact with very much both at home and abroad that has to do with the war. Moreover, he has arrived at the intelligence and moral attitude of the American viewpoint. It is something to challenge attention when eight or ten thousand of a race which within the memory of living men knew little beyond the restraints of barbarism cross the ocean as crusaders of democracy and civilization.

It is reasonably due the Indian to mention the contributions of his more primitive endowments to the methods and strategy of modern warfare, as disclosed in individual adroitness of attack, in trench tactics, in concealed approach and creeping offensive and in many successful features of reconnoissance and maneuver, which are conceded to be largely borrowed from the aboriginal American who was ever a natural trailer, who slipped noiselessly through tanglewood and made himself a part of the trees, who was a born sharpshooter, a scout by intuition and an instinctive artist in the intricacies of camouflage. The student of American military operations tells an interesting story of the accretions to military science and practice filtered from Indian warfare between colonial days and the tragedy of the Little Big Horn.

Severe indictments against the Government's connection with the Indians have appeared in former years, from sources acting under executive authority, proclaiming "a shameful record of broken treaties and unfulfilled promises." It will not be denied here that the Indian through long years of disappointment was crowded back and back until literature lamented him as a vanishing race with broken arrows and dead campfires, and art sculptured him in hopeless desolation at the end of the trail. Certainly the original American who felt himself the first homesteader of this continent and in his native honesty could comprehend no prior rights to all its plains and rivers and forests has found himself too often relegated to rocky regions or arid wastes where sustenance must be coaxed from unwatered sands. Recent administration, however, has had no part in such conditions. The later attitude of the Government toward the Indian has been a sympathetic, humane, yet definitely practical one. It has recognized him as a man, the first and hyphenless American, possessing a quick intellect, a glowing spirituality, an ardent love for his children, a brave heart, and fidelity to his promise until betrayed. These must be accepted as human attributes and are so proven by the large percentage of Indians who to-day attend church, live in well-arranged houses, are English-speaking citizens and voters, capable artisans, successful in business, in the learned professions, in literature, and in legislative assemblies.

Our recent policy clearly has been that we want no dead Indians, good or bad, but will do all in our power to save their lives and keep them in health. That much has been fundamental, and every possible energy has been directed to that end. The facilities have not been fully adequate, but the remarkable results are seen in better homes, better sanitation and hygiene, more healthy, laughing babies, and more vigorous, happy adults.

After life and health has come the Indian's education, and all previous efforts have been increased to provide for him schools and industrial training, to teach him to use his brain efficiently and his hands skillfully, to send men of practical experience to assist him in farming, gardening, and stock raising. The splendid output of our

school system and the greatly enlarged product of Indian tillage and live stock are the answer to these efforts.

Under that policy it has been our purpose to protect the Indian's property and his personal rights, to make it difficult for sharks and shysters to despoil him of his just possessions or exploit him for mercenary gain, and, so far as possible, to stand as a friend and counselor between him and unscrupulous mischief-makers, who encourage discontent in quest of fat fees for correcting conditions that do not exist.

Finally, we have begun the speedy release from guardianship of all Indians found to be competent to transact their own affairs, giving to all such a full control of their property of whatever description and recognizing their status to be the same in every respect as the white man's.

In all these things our aim has been to extend the helping hand, to restore the Indian's faith in friendship, and give him reason to feel that his welfare is a part of the general welfare, his interests one with the white man's, his advancement essential to our collective progress. We have endeavored especially to further his desire for individuality, self-reliance, initiative and the ability to stand alone, upon the truism that no man will become interested and progressive in the things he does not desire.

This policy has been in a marked degree fruitful. It is not too much to say that it has developed notably the Indian's confidence in the Government, made him feel that its flag is his flag, its weal his weal, its warfare his warfare, its destiny his destiny. It has revived the dauntless spirit of his ancestry and transformed it into the valorous stuff of American patriotism, so that he feels it an honor and a privilege to volunteer his service in defense of all that our Government with its laws and institutions means to ourselves and to the world. This policy, if continued, I believe can not fail to dissolve tribal bonds, remove inter-racial barriers, rescue the Indian from his retarding isolation, and absorb him into the general population with the full rights and immunities of our American life to which he is entitled from any standpoint of justice and wise statesmanship.

THE NEW DECLARATION OF POLICY.

On April 17, 1917, we announced a declaration of policy which contemplated the release from governmental supervision, with all of their property, of practically all Indians having one-half or more white blood, and those with more than one-half Indian blood shown to be as capable of transacting their own affairs as the average white man, also all Indian students over 21 years of age who complete the full course of instruction in the Government schools, receive diplomas and demonstrate competency.

In the workout of the "new policy" the department is able to release from governmental control the "white Indians," and those who have demonstrated their capacity, at the same time enlarge and intensify its interest in the Indian who really needs aid and protection. In its application thousands of Indians have been given their freedom, and while some of those released have not sustained themselves, on the whole, this advanced step has been fully justified. It is the beginning of the end of the Indian problem.

Since the passage of the act of May 8, 1906 (34 Stat., 182), and modifying acts, there have been issued 16,500 patents in fee, covering 2,086,722 acres of land. Since April' 17, 1917, the date when the declaration of policy became effective, there have been issued 6,456 patents in fee, involving 987,844 acres. In other words, the number of acres patented since the declaration of the "new policy," less than 18 months, nearly equals the area patented during the preceding 10 years, and the number of patentees is nearly two-thirds of the number to whom patents have issued during the 10 preceding years.

Of the 550 Blackfeet Indians who were declared competent during the year 1918, 120 have been issued patents in fee, only two of whom have disposed of their lands.

Competency commissions have visited the following reservations: Cheyenne River, Coeur d'Alene, Fort Berthold, Fort Peck, Hayward, Kiowa, Klamath, Lower Brule, Otoe, Oneida, Ponca, Pawnee, Pottawatomi, Shoshone, Standing Rock, and Umatilla. They have also visited among the Five Civilized Tribes.

EDUCATING THE INDIAN.

We are more and more recognizing the fact that the Indian in his tribal state was not without a system of education suited to his needs. The young men were trained in adventure, endurance, and skill. The young women were trained in making the camp and in keeping it in order, in providing fuel, and in tanning and dressing skins and making them into articles of clothing. In other words, the Indian youth was taught the things he needed to know in order to protect himself and to provide for his physical needs with due regard to the prevailing conditions of his environment. While the chief aim of his education was to enable him to get a living, just as the chief aim of our education is to give us knowledge and the ability to make a living, still we should not overlook the fact that the Indians' system of education did not neglect cultural training. His tribal ceremonies, tribal lore, tribal art, tribal handicrafts, and his native music are all evidences of his appreciation of the cultural side of life. While he constantly emphasized the individualistic point of view, he also pursued cultural occupations for the satisfaction they afforded; he developed skill and courage for the purpose

of advancing his personal standing in the tribe; and he acquired a knowledge of tribal ceremonies for the sake of individual salvation and influence over others.

This individualistic aim of education was necessarily narrow and selfish. It tended to subordinate the welfare of the whole to the advancement of the individual. The progress of the tribe as a whole was not definitely planned and sought. The Indian under his tribal organization did not reach the state of conscious evolution. He was content to pursue the even tenor of his way with little thought of social progress or efficiency.

In our policy of absorbing the Indian into the body politic of the Nation, the aim of his education must be broad enough to include both the welfare of the individual and the good of society. We must also take into account the development of those abilities with which he is peculiarly endowed and which have come down to him as a racial heritage—his religion, art, deftness of hand, and his sensitive, esthetic temperament.

THE COURSE OF STUDY.—The course of study for Indian schools provides, through its prevocational and vocational courses, for educating the Indian youth along practical lines. The best part of all human knowledge has come to us through the five sensesthe senses of sight, hearing, taste, smell, and touch—and the most important part of education has always been the training of those senses through which that best part of knowledge comes. The faculty of accurate observation, the acquisition of skill in doing, and the habit of careful observation, reflection, and measured reasoning are best acquired through the proper training of the senses. The opportunities enjoyed by the boy on a farm for training eye, ear, and mind; the discipline and motor training of the fundamental trades, such as those of the carpenter, blacksmith, mason, painter, plumber, etc., for boys; and practical courses in domestic science, domestic art, housekeeping, hospital mursing, etc., for girls, are recognized by the leading educators of the day as affording the best training possible for secondary schools, and they are characteristic features of the curriculum for Indian schools.

The central idea of the course of study for Indian schools is the elimination of needless studies and the employment of a natural system of instruction built out of actual activities in industry, esthetics, civics, and community interests. The development of the all-round efficient citizen is the dominating feature. So we are now teaching the Indian boys and girls to design and make beautiful and useful things with their hands; to study and understand the practical application of the laws of nature, and to apply and appreciate art in the cooking and serving of a meal, in the making and fitting of a garment, and in the furnishing and decorating of homes:

in designing and making useful tools and furniture, in building convenient, comfortable, and sanitary houses; or, peradventure, in making two ears of corn grow where only one grew before.

Nor is the cultural side of the Indian child's education neglected. In our larger schools we have literary societies, religious organizations, brass bands, orchestras, choirs, athletic clubs, physical culture classes, art classes, and various other student organizations and enterprises for promoting cultural training.

Educators everywhere are more and more recognizing the fact that the conventional curriculum of the ordinary school is an accumulation of years of custom, and that there is all too much of nonessentials and unprofitable repetition in the elementary courses. Especially is this true as to the subjects of geography, arithmetic, history, physiology, etc. For a long time these subjects were usually taken up in the primary grades in simple form and repeated in the intermediate and grammar grades with slight modification and in a little different language. Such repetition is not calculated to arouse the enthusiasm of the average boy or girl, and it is a waste of time to require a pupil to go over and over the same subject through two, three, or four grades in the usual perfunctory way without much serious consideration as to the aim to be attained or the motive.

As to nonessentials, it is a saving of time and expense to leave them out and thus make room for more practical and useful subjects. For example, in arithmetic, such subjects as powers and roots, ratios. and average, approximations, divisibility, foreign money, metric system, partial payments, duodecimals, stocks and bonds, etc., have been eliminated from the course of study for Indian schools.

As the Government Indian schools constitute an independent educational system they are at liberty to deviate from the conventional and to fit their courses of study to conform to the needs of their pupils.

With studies properly adjusted to the pupils' needs and with nonessentials and useless repetition eliminated, it is possible to provide daily three to four hours of productive industrial work on the farm, in the shops, or in the various domestic departments of the schools, without serious handicap to the academic work. Along with this productive work is given definite, systematic instruction, so that the pupil learns the theory while acquiring skill in doing.

The chief educational value of any sort of productive work lies in the plan employed in organizing and supervising the work and in logical, definite, systematic method of giving the class instruction. Experience has demonstrated that no teacher ever becomes so proficient that definite lesson plans are not essential to the best results.

The course of study for Indian schools requires that all teachers, both academic and industrial, prepare daily lesson outlines and follow them as closely as possible.

The following daily lesson plans in cooking for one week illustrates the form recently adopted and now in general use throughout the Indian School Service:

SAMPLE DAILY LESSON PLAN.

For week ending September 5, 1917.

LESSON NO. 1.

Subject: Cooking (prevocational).

Lesson assignment: The kitchen, page 130, Course of Study.

Aim: To teach proper equipment for the home kitchen.

- Plan: 1. Take pupils to kitchen and explain parts of cookstove, how to operate, and how to build fire.
 - 2. Teach names of utensils—their cost, use, and care.
 - 3. Discuss arrangement of kitchen furniture and equipment.

References: The Home and the Family, Kinne and Cooley, page 131. From Kitchen to Garret, Van de Water.

LESSON NO. 2.

Lesson assignment: Personal Hygiene in Kitchen, page 130, Course of Study.

Aim: To teach order, neatness, and sanitation.

- Plan: 1. Discuss proper dress, care of hands, nails, hair, etc.
 - Write important rules on blackboard.
 - 3. Make inspection of class as to neatness of person, calling attention to any untidiness.

References: Food and Health, Kinne and Cooley. Manual of Personal Hygiene, Pyle.

LESSON NO. 3.

Lesson assignment: Dishwashing, page 130, Course of Study.

Aim: To teach proper method.

Plan: 1. Discuss requisites—hot water, soap, dishcloth, etc.

- 2. Demonstrate and explain proper method.
- 3. Discuss relation of dishwashing to garbage can.

References: Kitchen and Dining Room Work, Willard. House Sanitation, Talbot.

In addition to the primary and prevocational courses, the following vocational courses are provided:

COURSE IN AGRICULTURE.

First year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English. Vocational arithmetic.

Industrial geography. General exercises.

Music 1 (band or orchestra).

Physical training. Farm practice.2.

Farm implements.

English.

Vocational arithmetic. Agricultural botany. General exercises.

Music 1 (band or orchestra).

Physical training. Farm practice. 2

Land selection and testing.

¹ Optional.

^{*} Theory, 14 hours per week; practice 224 hours a week.

Second year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English. Vocational arithmetic.

civics.

Current events.

Music 1 (band or orchestra).

Physical training. Farm practice. 2

Horticulture and poultry. Soils and soil fertility.

English. Arithmetic.

United States history and community United States history and community

civics.

Current events.

Music 1 (band or orchestra).

Physical training. Farm practice. 2

Horticulture and gardening. Farm machinery; gas engines.

Third year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English.

Agricultural physics. Farm accounts. General history. Current events. Music 1 (band or orchestra).

Physical training. Farm practice. 2

Farm animals (types and breeds).

English.

Agricultural chemistry. Farm accounts. General history. Current events.

Music 1 (band or orchestra).

Physical training. Farm practice. 2

Farm animals (diseases of).

Fourth year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English. Field crops.

Insects and insecticides.

Current events.

Music 1 (band or orchestra).

Physical training. Farm practice. Feeds and feeding. English. Plant diseases. Rural economics. Current events.

Music 1 (band or orchestra).

Physical training. Farm practice. Farm management.

The above course in agriculture is planned and conducted with the vocational aim clearly and definitely dominant. The work in agriculture is the important and determining work, the nucleus about which the academic work is arranged. The character and amount of the academic work is determined by its relation and importance to the problems of agriculture and its vital necessity to the future Indian farmer. The aim is to produce not a scientist nor a specialist, but a practical, efficient farmer, whose success will depend fully as much upon his skill in doing, which results from practice and training, as it results from scientific knowledge and managerial ability. The course includes all of the work which is found on the ordinary, diversified farm. This will fit the Indian

[·] Optional.

² Theory, 1½ hours per week; practice, 22½ hours a week,

boys to return to their own land, situated under whatever conditions it may be, and adapt themselves to those conditions and successfully undertake the type of farming which must be followed there.

The work in history, civics, economics, and English aims definitely at training for citizenship. The general living conditions and school atmosphere as well as the social life and student enterprises add materially to the effectiveness of this work.

. COURSE IN MECHANIC ARTS.

First year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEES).

English.

Vocational arithmetic.

Industrial geography.

General exercises.

Music 1 (band or orchestra).

Physical training.

Mechanical drawing or architectural

drafting.

Shop practice. 2

English.

Vocational arithmetic.

Elementary botany. General exercises.

Music 1 (band or orchestra).

Physical training.

Mechanical drawing or architectural

drafting.

Shop practice.

Second year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English.

Vocational arithmetic.

United States history and community

civics.

Current events.

Music 1 (band or orchestra).

Physical training.

drafting.

Shop practice. 2

English.

Vocational arithmetic.

United States history and community

civics.

Current events.

Music 1 (band or orchestra).

Physical training.

Mechanical drawing or architectural Mechanical drawing or architectural

drafting.

Chemistry. Shop mathematics.

Shop practice. 2

Third year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English.

Physics.

Shop mathematics. General history.

Current events.

Music 1 (band or orchestra).

Physical training.

Mechanical drawing or architectural draft-

ing. Shop practice.2 English.

Current events.

Music 1 (band or orchestra).

Physical training.

General history.

Mechanical drawing or architectural draft-

Shop practice.2

¹ Optional.

² Theory, 1½ hours a week; practice 20½ hours a week.

Fourth year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English.

English.

Industrial history.
Shop mathematics.

Rural economics. Shop mathematics. Current events.

Current events.

Music ¹ (band or orchestra).

Music 1 (band or orchestra).

Physical training. Shop practice.² Physical training. Shop practice.²

Trades may be selected from the following: Carpentry, blacksmithing, painting, printing, masonry, plumbing, steam fitting, steam and electrical engineering.

No course in mechanic arts in any school conducted as a school can turn out experienced master craftsmen. The function of this course is (1) to help a boy to find himself and to select that life work for whi h he seems best fitted and has most chance of success, and (2) to give him such trade and technical information and training as to enable him to lea e school not a finished workman, but a partially trained workman, who, after getting real trade experience, will become the exceptionally trained and skilled workman, capable of acting as foreman, boss, contractor, or manager.

The academic work contributes definitely and distinctively to trade problems, so that this work, too, may function in the future life of the mechanic. This work supplements the practical work, and fits the student to plan work, to follow the plans of others, to make estimates, and to do work in a businesslike, order.y way. The practice work aims to give an orderly experience in and reasonable familiarity with processes, operating machines, doing trade work, selecting and using materials, planning obs, and directing work. In all practical work the student is taught to apply and use the academic work.

COURSE IN HOME ECONOMICS.

First year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English.
Vocational arithmetic.
Industrial geography.
General exercises.

English.
Vocational arithmetic.
Agricultural botany.
General exercises.
Music.

Music.
Physical training.

Physical training.

Cooking.* Sewing.* Cooking.*
Sewing.*

'Theory, 11 hours a week; shop rapetice, 201 hours per week.

Optional.

Theory, 14 hours per week; practice in cooking, sewing, and housekeeping, 204 hours per week.

Second year.

FIRST TERM (20 WEEKS).

SECOND TERM (30 WEEKS).

English.
Vocational arithmetic.
United States history.
Community civics.
Current events.
Music.
Physical training.

Cooking.1

Sewing.1

English.
Vocational arithmetic.
United States history.
Community civics.
Current events.
Music.
Physical training.
Cooking.¹
Sewing.¹

Third year.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English.
Household physics.
General history.
Current events.
Music.
Physical training.
Cooking.
Sewing.

English.
Household chemistry.
General history.
Current events.
Music.
Physical training.
Cooking.¹
Sewing.¹

Fourth year.

English.

FIRST TERM (20 WEEKS).

SECOND TERM (20 WEEKS).

English.
Child study and motherhood.
Household insects.
Home architecture, decoration, and sanitation.
Current events.
Music.
Physical training.
Cooking.
Sewing.
Sewing.

Rural economics.

Household accounts and household management.

Current events.

Music.

Physical training.

Cooking.¹

Sewing.¹

The girls who take the course in home economics should become the model housewives and mothers in the communities to which they return. This course bends all its efforts to training them to that end. All of the work in housewifery is planned and conducted with the home of the farmer or workman of moderate means in mind. Therefore the work is essentially practical rather than idealistic. Management of such a home and of such an income is emphasized throughout. Training for motherhood and for the cultural and artistic part of the home life is also provided, i. e., these girls must be able to make their future homes pleasant and attractive as well as economically and hygienically efficient, and they must give to their

¹ Theory, 1½ hours per week; practice in cooking, sewing, and housekeeping, 20½ hours per week.

children the culture and refinement essential to racial progress. This part of their education must be secured through training in social observances and usages through the special type of English work provided for this course, through the special courses dealing with home management, motherhood, and the care of children, and through the several art courses.

Special effort is made to preserve all that is best in Indian folk tales and hero stories as a race heritage, which is to be handed down by mothers to their children as an inspiration for racial advancement and progress. In the same way but in larger measure Indian art is fostered and encouraged in every possible way. Girls are encouraged to get all that is best in their tribal art, to become proficient in its use, to understand its symbolism, and to apply it to the materials and furnishings of their new types of homes.

Special attention is also given to fitting these girls to take part in the social and community life of their future neighborhood and to enable them to exercise a helpful and wholesome influence on all community activities.

By fully appreciating and keeping constantly in mind the probable future living conditions of Indian students, the difference which must be made in teaching the various subjects of these courses as a part of a vocational course, and in teaching the same subjects as merely cultural or college preparatory courses, there is little trouble experienced in properly correlating the academic and the vocational work of the schools, and in giving to the Indian boy and girl the academic and vocational training which will function properly in their lives after they return to their homes, or take up the work of their chosen vocation in competition with whites away from the reservation.

Public school enbollment.—Indian children other than those of the Five Civilized Tribes in Oklahoma have been enrolled in public schools to an approximate number of 10,828. Of these, 2,436 children have been received in these schools under contracts made with 186 school districts, which have provided for payment of a fixed amount per pupil per day of actual attendance, in accordance with the practice adopted a few years ago. The daily rate so paid is determined chiefly by the cost to the school district for operation per pupil. The total amount of money obligated for payment of tuition under all of these contracts was over \$60,000. The amount actually paid will of course fall below the amount obligated because of a failure to maintain a perfect measure of attendance of the Indian children enrolled.

GENERAL SCHOOL POLICY.—Increased attendance of Indian children in the State public schools has an important and a direct bearing upon the entire problem of Indian education. In communities where the public-school system has been developed the eventual enrollment

of Indian children therein will of course take them out of the Government Indian day and boarding schools. This will lead first to a decrease in the size of the Government school and in some instances it will become possible to abolish certain schools with a consequent material saving to the United States, as the cost of education of Indians in the public schools is less than in the Government schools. Especially is this the case with a boarding school. In my declaration of policy of April 17, 1917, which was given in full in the annual report for the fiscal year 1917, I pointed out that in many of our boarding schools Indian children are being educated at Government expense whose parents are amply able to pay for their education and where the children have public-school facilities at or near their homes, and that such children should not hereafter be enrolled in Government Indian schools supported by gratuity appropriations except on payment of actual per capita cost and transportation. Pursuant to this policy, the elimination from Indian boarding schools of those children not properly eligible has been carried on during the past year, but has not been fully consummated.

The amount of money vailable for support of the Government Indian schools has for many years been limited by law to a fixed sum per capita. Up to the last few years this amount has been fixed at \$167 per pupil, but at present the law permits the use of \$200 in schools where the attendance exceeds 100 pupils and \$225 where the attendance falls below 100, special authority therefor being granted by the Secretary of the Interior in the latter case.

The last legislation upon this subject is contained in the Indian appropriation act of March 25, 1918, to the effect:

That hereafter, except for pay of superintendents and for transportation of goods and supplies and transportation of pupils, not more than \$200 shall be expended from appropriations made in this act, or any other act, for the annual support and education of any one pupil in any Indian school unless the attendance in any school shall be less than 100 pupils, in which case the Secretary of the Interior may authorize a per capita expenditure of not to exceed \$225: Provided, That the total amount appropriated for the support of such school shall not be exceeded: Provided further, That the number of pupils in any school entitled to the per capita allowance hereby provided for shall be determined by taking the average attendance for the entire fiscal year and not any fractional part thereof: Provided further, That the foregoing shall also apply to expenditures for the fiscal year ending June 30, 1918.

The effect of this legislation has been to necessitate a large enrollment or attendance in the boarding schools, and superintendents have felt impelled to obtain sufficient pupils to enable them to expend such an amount of money as they have found essential to the proper conduct of their schools, although they have been given definite instructions to eliminate from, or not to enroll, noneligibles in their schools and have endeavored to comply.

Legislation of this character has worked to the disadvantage of the schools by placing a premium upon a full enrollment rather than upon the character of such enrollment and on eligibility of the applicants. During the period of the war every possible economy is being exercised in the operation of the Indian schools in spite of well-known conditions which have resulted in increased cost of labor and materials and an endeavor is being made to operate the schools within the amount of money so limited for support of each pupil. However, during normal conditions these amounts so allowed are entirely inadequate, and it is hoped that after war demands have ceased and conditions become normal a more liberal policy will permit the expenditure of sufficient funds to properly maintain the Indian boarding schools and enable full adherence to the present course of study, and especially the industrial training which is covered thereby.

Public schools in eastern oklahoma.—An appropriation of \$275,000 was given in aid of the public schools within the territory comprising the Five Civilized Tribes and the Quapaw A ency in Oklahoma, and of this there has been expended the sum of \$261,614 in payments to 2,292 public-school districts. In these schools about 18,869 Indian children were enrolled and have been attending in association with the white children of the community. The total enumeration of Indian children in the same territory is 25,612, of whom there were enrolled in tribal boarding schools 1,347, in private mission schools 565, and in Indian nonreservation schools 827, making a total of 21,608 Indian children of the Five Civilized Tribes in schools of some character.

An important decision regarding the right of Indian children to attend white schools was obtained as a result of the suit of Dorothy Sunrise v. District Board of Cache Consolidated School District No. 1, Comanche County, Okla. The Cache Consolidated District refused to accept for enrollment several children presented by the local superintendent. Every means of persuasion having failed, the case was filed in the district court, praying for a writ of mandamus compelling the acceptance of one of these children, which resulted in a decision by the court that the Indian child was entitled to attend the school as a pupil and to all rights and privileges of the school. he children were admitted to the school and have been properly and graciously treated since.

The decision is a very important one, bearing on the rights of these Indian children to attend the white schools.

School changes.—About 20 day schools were abolished because of public-school facilities available to the pupils, or suitable accommodations for them in other Indian schools; and 3 boarding schools were

discontinued for similar reasons. On the other hand, 5 day schools were established in localities where educational provisions were lacking, and the Bloomfield Seminary, Five Tribes, was reopened. These changes were made to better supply the actual school needs of the Indian children and to reduce expenses.

CERTIFICATES OF COMPETENCY TO GRADUATES.—In the work of our advanced schools giving thorough courses in vocational training, conscientious effort has been made to carry out the purpose of the declaration of policy of April 17, 1917, in its following provision:

Indian students, when they are 21 years of age or over, who complete the full course of instruction in the Government schools, receive diplomas, and have demonstrated competency, will be so declared.

During the year eight nonreservation schools were authorized and equipped for four-year periods of vocational instruction, with appropriate academic work, above the sixth grade. This instruction and practice was along the lines of agriculture and practical trades best suited to the occupational needs of the boys and in home economics for the girls. Since the introduction of these course requirements in February, 1916, not all of these vocational schools have accomplished the equivalent of work necessary for graduation. Last year six of them reported successful graduates, varying in number from half a dozen to 40 or 50. About one-half or more of these students were below the age of 21 and therefore not immediately eligible for competency recognition, but will be considered when they reach the age required. Of the remaining, some 30 odd were considered educationally competent and so declared. Young men graduates were fewer in number last year because of those who entered war service before completing their education. Special care is exercised in passing upon the qualifications of these graduates, regarding not only their proficiency at school but their experience and contact with white people, their property interests and probable capacity for handling the same, their industry, habits and character, to the end that a certificate of educational competency, when issued, shall be, in the absence of later adverse developments, a reasonable basis for issuance of a patent in fee. A certain percentage of these cases are therefore held in abevance until the graduates shall have further proven their ability by actual contact with the practical conditions of life out of school. It is my purpose to keep in some degree of personal and friendly touch with these young men and women who are commissioned to go out and make their own way, and so a letter of helpful and suggestive spirit is written to each recipient of a competency certificate inviting a response after a year or so of experience in the outside world. I feel that this may have a human and sympathetic value and that it is worth while. School and reservation superintendents are also requested to follow up these young people and report as to their progress in self-support. Below are two samples of such letters to competent graduates, together with a copy of the certificate awarded in another instance.

. MAY 2, 1918.

MISS BELLE PENISEA

(Through Superintendent Carlisle School).

MY DEAR MISS PENISKA: I send you the inclosed certificate of educational competency, feeling that you have earned such recognition. I am pleased with some of the things said about you, one of which is that you are conscientious and always try to do your best. That trait of character will go far toward bringing success to anyone, and it is needed just as much in one calling as another. I note also that you incline to the duties of home making, which is commendable, because there is nothing in the world that helps more to make people happy and progressive than well-ordered, efficient, and refined housekeeping. These conditions are the purifying and elevating influence of all community life. High-minded, sweet-tempered home-keepers are the bringers of strength and virtue to social welfare. Hold fast to your highest ideals; they will be among your best friends in any work you do. Should you acquire any land hereafter, be careful in its management, and feel free to consult this bureau, if you desire, about any matter affecting it.

I give you my best wishes and would like you to write me a year hence and tell me how you are doing and something of your plans. I will also ask for a report about you from the superintendent at Carlisle.

Sincerely yours,

(Signed)

CATO SELLS,

Commissioner.

JUNE 1, 1918.

Mr. HARRY PERICO

(Through Superintendent Chilocco School).

MY DEAR MR. PERICO: In pursuing the course of printing, I am pleased to note that you have attained proficiency and have done good work in your craft away from the school, and feel that you will be worthy in every way of the confidence expressed in the inclosed certificate of educational competency.

I commend your attitude of readiness for war service, if called upon, and your desire to extend your education. No one is ever too old to become better educated.

I also note that you are reported to have an allotment of 120 acres of land, besides some money on deposit, and I wish you to be very careful in the handling of your property. Every young man should add to his money savings each year. Let me urge you to develop and study the best productive value of your land; keep it free from encumbrance and do not place yourself in a position where you have to sell it. No material possession is better to keep than good land.

You have the true progressive spirit, and I shall expect to hear favorable reports about you from your school superintendent. I should also like you to write me a year hence something of your plans and prospects.

Sincerely yours,

(Signed)

CATO SELLS.

Commissioner.

UNITED STATES BUREAU OF INDIAN AFFAIRS—CERTIFICATE OF EDUCATIONAL COM-PETENCY.

This certifies that Everidge Benton, a five-eighths blood Indian, of the Choctaw Tribe. having satisfactorily completed the course in commercial training at the Haskell Institute Indian School, as authorized by the Commissioner of Indian Affairs, was awarded a diploma of graduation at the close of the school year 1917, and from this record and other information submitted concerning his work as a student he is regarded as possessing such character, judgment, and educational qualifications as render him reasonably competent to transact his own business and to care for his own individual affairs.

Given at Washington, D. C., on this 12th day of June, nineteen hundred seventeen.

[SEAL.]

CATO SELLS.

Commissioner.

THE CARLISLE INDIAN SCHOOL.

The United States Indian School at Carlisle, Pa., will not continue as an institution for the academic and vocational training of Indian boys and girls, but is being turned over to the War Department to be used for Army hospital purposes, and for the rehabilitation and reeducation of sick and wounded soldiers. While the actual transfer will not be finally made until September 1, 1918, yet the plans therefor have been fully perfected and partly carried into effect. The educational system of the Indian Department will not suffer because of the abolishment of the Carlisle School, as the student body has been considerably depleted by enlistments in the Army and Navy, and the war industrial requirements are such as to demand many older pupils who might otherwise be enrolled as students. Therefore accommodations for the Carlisle students are available in other Indian schools and arrangements are being made for their transfer to well-equipped schools located nearer the vicinities in which they reside, which will be to their advantage in many respects rather than otherwise.

This important transaction will create surprise among many, and possibly regret to those who have had intimate knowledge of the great influence of this school as an educational factor among the Indians, but it can not fail to meet with general approval and the most cordial patriotic sanction when the facts and demands of the present conditions are considered. The sick and disabled soldiers of the American Army must have adequate care and treatment and this need is constantly increasing. The medical department of the Army has been in quest of suitable buildings and sites for hospitals, and there is present urgent need for such facilities as can be utilized with the least possible delay. Moreover, post-war problems are already at hand and reconstructive measures must be initiated. A large factor in this work is the reeducation of soldiers physically disabled in the war. The school plant at Carlisle is well adapted

to this purpose and many of its buildings, with a little alteration, can be speedily used for hospital purposes, while its extensive shops and much of its machinery and equipment afford the requisites for vocational training and for the practice of new occupations or the new ways of following old trades.

The following correspondence between the Secretary of War and the Secretary of the Interior concerning the transfer of the Carlisle School is self-explanatory:

> WAR DEPARTMENT, Washington, July 9, 1918.

MY DEAR MR. SECRETARY: The Army medical department has been looking for suitable buildings and sites for hospitals. We are greatly in need of hospital facilities at the present time. My attention has been drawn to the Carlisle Indian School, which, because of its far eastern location and remoteness from the centers of Indian population, might be available for this purpose, especially as under the law of 1882, which created the Indian School at Carlisle, its return to the Army was provided for under certain eventualities.

I am wondering whether the Department of the Interior would care to consider the advisability of turning this property back to the Army for hospital purposes and for the rehabilitation and reeducation of the sick and wounded from the war. I am informed that there is a very considerable equipment there which might be utilized for this purpose.

Cordially, yours,

(Signed)

NEWTON D. BAKER, Secretary of War.

The honorable the Secretary of the Interior.

THE SECRETARY OF THE INTERIOR,

WASHINGTON, July 16, 1918.

DEAR MR. SECRETARY: I have your letter of July 9, asking whether the Indian School plant at Carlisle, Pa., could be turned over to the Army for hospital purposes and for the rehabilitation and reeducation of the sick and wounded soldiers.

I find that the pupils now enrolled in the Carlisle School can be accommodated in other Indian schools, and in view of the need by the Army of an institution of this character, I have given my consent to the turning over of the plant for the purposes indicated.

I have asked Commissioner Sells to arrange to vacate the plant by September 1, and suggest that any matters pertaining to the use of furnishings or equipment be taken up with him by such official of your department as you may designate.

Cordially, yours,

(Signed)

FRANKLIN K. LANE.

Hon. NEWTON D. BAKER,

Secretary of War.

HEALTH.

The health work of the Indian Service throughout the past fiscal year was conducted under increasing difficulties, owing to the patriotic response of many of our physicians and nurses to their country's call, yet, due to the impetus given the campaigns on the various reservations during the immediately preceding years, a definite progress has been recorded.

All our health activities are planned and promoted upon the principle that permanent results in these matters must come through popular education in sanitation, ventilation, care of children, care of the sick, domestic economy, etc. Despite the loss of many health workers this line of endeavor has been faithfully carried forward to the greatest possible extent and much good has been accomplished. Another hardship which has been keenly felt is the greatly increased prices of all supplies, particularly medicines, drugs, and surgical instruments, the cost of which it has been necessary to meet with appropriations no larger than those of former years, or not increased proportionately to the advanced cost of the material, for the purchase of which they were intended. A patriotic spirit of endeavor, however, has actuated our employees, and a faithful attempt has been made to secure the best possible results with the facilities available.

Tuberculosis and trachoma continue to furnish two hard problems to solve in upbuilding the health of the Indian race. Notwithstanding the loss of physicians, it has been possible to operate all of our sanatoria during the year, and many cases of tuberculosis have been treated therein. Additional facilities have also been provided, and in some instances existing institutions have been enlarged, where the need was imperative, either by limited new construction, or through the purchase of buildings already completed, or by remodeling.

The endeavors to eradicate trachoma have suffered principally from the loss of specialists who were employed particularly for this work. These losses, however, occurred during the latter part of the fiscal year, so that the work was continued with but little abatement, and much has been, and is being, done to suppress this disease among the Indians. It is not uncommon to find trachoma entirely under control and practically eradicated at many of the boarding schools, due to the effective treatment which is possible when suitable control can be exercised over the cases. The greatest difficulty in this work exists among the older infected Indians who are more difficult to reach and treat, and as a consequence remain as foci for the dissemination of the disease. Accordingly everything possible is done to place them under treatment where feasible, and to educate them in cleanliness, in order to prevent contagion.

Continued emphasis has been laid upon the better babies' movement, which was actively inaugurated year before last, and which demonstrated such remarkably immediate and gratifying results. This campaign has now become a regular feature of the reservation activities and will continue to receive the earnest attention and efforts which it merits.

A number of schools and reservations were visited during the past year by epidemics, including smallpox, "liberty" measles, pneumonia, and acute influenza. Measles is always dreaded among Indian children, a common sequel being tuberculosis, and for this reason all possible steps were taken to prevent the spread of the disease and to give those infected proper care and after treatment. Fortunately, the epidemics for the most part have not been of a severe nature and, as a rule, serious results did not follow.

Among the Navajos and Hopi Indians in Arizona and New Mexico considerable trouble has been experienced with smallpox, which, though of a mild form, became epidemic among these people during the last year. Vigorous steps were immediately taken to suppress this contagion, special physicians and the medical supervisor being detailed for the purpose of conducting a campaign of vaccination. Hundreds of Indians were vaccinated and it is now known that the efforts of these physicians, which were augmented and continued after their departure by the regular medical forces on the reservations. have placed the disease under control. Of especial interest in this connection is the campaign of vaccination conducted by the supervisor of hospitals among the Hopi Tribe living upon the Moqui Reservation. These people dwell in communities and for that reason are more amenable to quarantine and control than the nomadic Navajos. The supervisor in his report upon this work states that every Hopi Indian not presenting a history of recent successful vaccination. or who had not had smallpox, was immunized in this campaign, and he is of the opinion that the whole tribe has been rendered immune.

At the Haskell Institute during the past spring a severe epidemic of influenza, or as observed in many parts of the United States a combination of streptococci and influenza bacilli, accompanied by pulmonary complications suddenly developed, resulting in several deaths among the pupils. For the purpose of assisting the local medical force in handling this epidemic, and for the purpose of investigating its source, a special physician and nurse were immediately detailed to the school, and the services of an epidemiologist from the Public Health Service were secured. Prompt measures succeeded in keeping the mortality down to a minimum. High winds and dust storms were prevailing at that time in the country surrounding this school, and the consensus of opinion seemed to be that the infection was wind-borne



Altogether, the health propaganda of the Indian Bureau is rendering its most righteous service. The perpetuation of the race is a first consideration. Education, and the protection and accumulation of property are greatly to be desired; to this end we are exerting ourselves to the uttermost, but everything is necessarily secondary to life.

IRRIGATION.

Irrigation was practiced to a considerable extent by many Indians of the southwest long before the white man came to this country. Evidences of prehistoric canals and ditches, among the Pimas in Arizona, bear mute testimony of the genius and industry of these people who eagerly grasp the improved facilities offered by the white man and the belated assistance extended by the Government. When the Spaniards came to New Mexico they found the Pueblo Indians packing baskets of earth on their backs to repair their old ditches or construct new ones to irrigate additional lands.

Irrigation is or should be resorted to in those localities where rainfall is insufficient or is not dependably sufficient for crop production. Fundamentally, it consists of the artificial application of water to land for agricultural purposes.

Water for irrigation is ordinarily secured by damming rivers, pumping from underground reservoirs or impounding flood-waters. The first has been longest used and is the most general. Pumping water has been resorted to with satisfactory results, and in some localities is the best, if not the only means, of supply. The impounding of waters which would otherwise be wasted is a method of conservation which has been utilized to a great advantage and is certain to be more extensively employed. There are millions of acres of land, particularly in the southwest, that could in this way be brought under cultivation. Such land lies largely in semiarid sections, where drought and crop failures are so frequent and disastrous as to make failure to employ this feasible solution an economic crime. notable example of flood-water conservation, from an intermittent and ordinarily limited flow, has been successfully effected in damming a branch of the Trinity River, near Fort Worth, where a great lake, containing an immense and permanent supply of water, has been created. What has been done to furnish water for the city of Fort Worth, and for pleasure purposes, can be as successfully accomplished for irrigating land not only in Texas but everywhere, under like conditions, throughout our entire country.

The fast growing population of the United States and the constantly increasing requirements for food production demand that every acre of tillable land should be made to yield each year to the full extent of its possibilities.

It is indefensible and inexcusable that man whom God has ordained to reign on earth over animate and inanimate things should fail to bring together, for his own benefit, immeasurable land and water waste.

Irrigation has been made enormously profitable by diverting the waters of constantly flowing streams, likewise by pumping from undersurface reservoirs, and the impounding of flood waters has been successfully used in a limited way in semiarid sections, but the time has come when the limit of our possibilities in this last respect must be employed.

The world's war is being directed by the master mind in the White House. The downfall of autocratic governments is writ so plain that he who runs can read. The aftermath, with the successful termination of the war behind us, will involve much more than the reconstruction incident to enlarged human liberty. A people responsible for revolutionizing our all-powerful but faulty financial system through the creation of a Federal Reserve Bank law, making possible the greater local use of wealth production, is certainly capable of taking advantage of the gifts of nature, readily within reach, and subduing the untamed land and water conditions awaiting the head and hand of man.

Truly, America has been prodigal of its natural resources. Golden opportunities lie right at our feet in the development of those great areas of the Southwest where the soil is fertile, the climate salubrious, and the possible yields truly marvelous.

On one Indian reservation alone the aggregate value of the crop raised during the past year exceeded \$6,000,000. On another reservation a 5-acre tract in alfalfa yielded over \$2,000, the hay having been harvested nine times during the calendar year.

Colorado River Reservation, Ariz.—To accommodate the everincreasing demand for water at this point, an additional pumping unit was installed during the year. The irrigable lands on this reservation are highly adapted to the production of long staple cotton, and every acre that can be brought under ditch is eagerly sought. The pumping plant is designed to provide water for lands allotted to the Indians only. Upward of 100,000 acres of equally fine land within the reservation could be irrigated by gravity from the Colorado River. A project of this size, however, would cost several million dollars. Congress has not yet authorized the work, although the recent Indian appropriation act carries a small sum for preliminary surveys and investigations at this point. The work should be undertaken, as the latent agricultural possibilities here are tremendous.

CROW RESERVATION, MONT.—The aggregate amount expended in irrigation work on this reservation during the year approximates

\$150,000. Main canals and laterals were enlarged and extended so as to bring additional land under ditch; suitable concrete headgates and other structures installed, and many bridges and smaller structures of timber erected. When completed the system on this reservation will serve upward of 70,000 acres. During the year just passed some 13,720 acres were cultivated, with an aggregate crop yield valued at \$223,176. The recent Indian appropriation act makes \$200,000 available to continue the work.

FORT HALL RESERVATION, IDAHO.—Some 12,000 acres within this reservation were cultivated during the past year, 7,712 acres by lessees of Indian land and 5,085 acres by the Indians themselves, an increase of over 3,000 acres. The principal crops are alfalfa, grain, potatoes, and sugar beets, the aggregate value of the crops raised on this project during the year exceeding \$500,000. A number of difficulties hamper the most successful operation of this system. canals and ditches constructed years ago are not of sufficient grade and carrying capacity to serve the area ultimately to be irrigated. The rapid growth of aquatic plants quickly diminishes the carrying capacity of the canals, already too limited; concrete structures improperly designed and constructed, without steel reinforcing, are constantly cracking and settling. Exposure to rigid frost action during the long winters augments this trouble. Other appropriators on the Blackfoot River, above the reservation headings, divert water justly belonging to the Indians and constant attention is demanded to see that their rights are protected. Excess waste, return and drainage waters discharged into Sand Creek by white irrigators, flow down into one of our main canals in such intermittent quantities as to seriously jeopardize its successful operation, frequently resulting in considerable damage to the Government's property.

GILA RIVER RESERVATION, ARIZ.—The Indian appropriation act of May 18, 1916, carried two items for the construction of diversion dams across the Gila River, one near the agency at Sacaton and the other outside the reservation, above the town of Florence. When constructed the dam at the agency will serve Indian lands exclusively, while the one above Florence will serve lands belonging to both Indians and whites. Extensive unexpected erosion of the south bank of the Gila River, at the lower dam site, so widened the river channel as to render the appropriation insufficient for the work. Congress gave additional funds in the recent Indian appropriation act. Plans and specifications covering this dam, which is to carry a bridge superstructure, have been completed and approved and it is expected that the work will be undertaken at an early date.

Construction of the upper diversion near Florence is contingent upon a satisfactory adjustment of conflicting claims to water between. Indetha ins and the whites. Negotiations have been continuous,

conferences repeated, and even tentative agreements reached. Binding contracts have not been executed, however, and recent developments indicate that the owners of certain interests in and around Florence have repudiated the former tentative agreement as to a division of these waters. This postpones actual construction indefinitely, as the work is not to begin until these conflicting claims are settled.

NAVAJO RESERVATION, ARIZ. AND N. MEX.—The scarcity of water in the large territory occupied by the Navajo and Moqui Indians renders the irrigation possibilities there exceedingly limited. Out of an aggregate area exceeding 12,000,000 acres, water is now available for some 6,500 acres only; 1,500 acres under the Ganado Project in the southern part of the reserve; 4,000 acres under the Hogback Project, near the San Juan School, and 1,000 acres near Marsh Pass, in northern Arizona. Investigations are being continued from time to time as funds are available, with a view of ascertaining additional areas for which water may be developed, but at best these will be very small, and as far as can be seen at present this vast domain must primarily remain a stock-raising proposition.

In my last annual report I referred briefly to the development of underground water for domestic and stock watering purposes, intimating that the problem confronting the Navajo is not one of grass but of water. Winter rains and summer cloudbursts produce considerable vegetation in regions bare of living streams or perennial springs. Ample forage is frequently at hand if water for domestic and stock needs can be found. The underground water developed for these Indians during the past few years has been of untold value to them during the extreme drought that has visited the southwest recently. Not only have thousands of head of stock been saved to the Navajos, but it has helped in no small way to augment the supply of wool, mutton, and beef available for market. These Indians have always been practically self-supporting, wresting at least a bare existence from an inhospitable country, but under recent market conditions many of them are becoming well-to-do, and a number even independent. Raw wool has been commanding such fancy prices lately that the making of Navajo rugs, formerly a source of considerable revenue, has practically ceased.

UINTAH RESERVATION, UTAH.—The controversy over water rights in the Uintah Valley, adverted to in my previous report, is still pending before the District Court for the State of Utah, a decision in the matter not yet having been handed down. In the meantime a reasonably satisfactory division of the available water between the Indians and the whites is being had through a water commissioner appointed by the court.

Large areas of unallotted land within this reservation were opened to homestead entry years ago and it is the settlers on these lands who are now contesting the prior right of the Indians to sufficient water for their needs. In the entire district there are some 46,000 acres under irrigation, being an increase of 11,000 acres over the past year. This represents an increase of over 30 per cent. The value of the crops raised by the Indians themselves exceeded \$95,000.

YAKIMA RESERVATION, WASH.—One of the most successful large irrigation projects with which the Indian Service has to deal is located on the Yakima Reservation, Wash. Designed to supply 120,000 acres, ultimately, we find over 64,000 acres now under actual cultivation. During the past year the crop yield exceeded \$6,000,000. The Indian appropriation act for the present fiscal year carries \$500,000 for the continuation of this work, which is being pushed as rapidly as existing conditions will permit. Machinery is resorted to, wherever possible, as a substitute for hand labor, and the three dragline excavators at work on this project removed 602,354 cubic yards of earth at an average cost of 10 cents per cubic yard. This is 50 per cent cheaper than estimated for several years ago, when labor and supplies were less expensive.

WIND RIVER RESERVATION, WYO.—Present plans call for the irrigation of approximately 73,000 acres within this reservation, of which some 50,000 acres are now under ditch. About \$200,000 was expended in this work during the year just ended, resulting in the addition of many miles of main canals and distributing laterals, with the attendant diversion structures, bridges, etc. Drainage of certain seeped areas had to be resorted to, with satisfactory results. Considerable areas within this reservation are leased, and still others are devoted to the cattle industry. The area actually cultivated yielded a gross return of over \$325,000, of which \$142,181 belonged to the Indians and \$182,883 to the whites.

ZUNI RESERVATION, N. Mex.—About 5,000 acres within this reservation are now under ditch, being supplied with water from a reservoir constructed years ago. The rapidity with which this reservoir is filling with silt is becoming alarming. Since its completion 11½ years ago the reservoir has lost 54 per cent of its capacity from this cause. At this rate the life of the reservoir is about 21 years, of which 11½ years have already passed. The capacity of the reservoir is decreasing, of course, in proportion to the deposit of silt, and unless some form of relief is soon devised the reservoir will be practically useless. The life of the reservoir may be extended temporarily by elevating the crest of the present dam and spillway, but the extent to which this can be carried is limited by natural surroundings. it has been estimated that an expenditure of \$13,000 in increasing the height of the dam will add possibly 11 years to the life of the

reservoir, but eventually some other form of relief must be devised or the project abandoned. These Indians are industrious, are expert agriculturists, and make full use of the facilities offered for industrial advancement.

SALT RIVER VALLEY, ARIZ.—One of the largest and most successful irrigation projects in the country is located in the Salt River Valley, Ariz. Here some 200,000 acres, a part of which belongs to the Indians, are being supplied with water from the Salt River, augmented during the dry season with stored water from the Roosevelt dam. The unit cost of this project has been fixed at \$60 per acre for construction purposes. During the past several years many acres in this valley have been shown to yield between \$300 and \$400 These lands lie within that area adapted to the growth of the long staple Pima cotton, a product developed and brought to its present state of perfection on the Pima Indian Reservation. For this cotton there is a most urgent demand, as it weaves into a fabric of great textile strength which is used, when obtainable, exclusively in the manufacture of automobile tires and aeroplane wings. For many years to come the demand for this cotton will be insatiable. Within the past 12 months the market price of this cotton has been between 70 and 80 cents per pound. Under reasonably favorable conditions the normal yield from this cotton averages a bale to the acre. Many acres produce more. Even at 70 cents per pound this would give an average gross yield of \$350 per acre. Allowing \$250 which is excessive, to cover all costs of production, labor, etc., it would still leave a net yield of \$100 per acre annually. This is from the lint alone. In the past it has been impossible to supply the demand for the seed from this cotton and additional areas are being planted to this product as rapidly as the seed can be obtained. The value of the seed produced, added to the returns from the lint, yields a net income on the investment that is truly marvelous.

These figures sound astonishing but they are being demonstrated daily, and all of this comes from intelligent application of water to arid areas, otherwise worthless for agricultural purposes.

AGRICULTURE AND STOCK RAISING.

FARMING.—The campaign for increased production on Indian land to meet war-time conditions, as outlined in my last annual report, has been further systematized and aggressively followed up during the year with continued good results. Reports thus far received indicate that the Indians on 75 reservations are cultivating 370,101 acres of land, as compared with 317,101 acres last year, which represents an increase of 52,990 acres.

Practically every reservation showed an increase ranging from 5 per cent to 100 per cent. Lack of rain on several of the reservations

where the percentage of increase was comparatively small prevented a better showing. Hundreds of Indians are cultivating their land this year who never farmed before, but who have enthusiastically caught the spirit of the campaign for increased production, and many others have enlarged their cultivated acreage. Here are several typical extracts from field reports:

James Baker is 38 years old, has a wife and six children, and is one of the Indians to whom citizenship papers were issued last year. Jim is a sober, industrious fellow, and has about 50 acres of wheat, 30 acres of oats, and 25 acres of flax, and has acquired a nice herd of cattle. He is, I feel, an Indian who since receiving his citizenship has really been prosperous.

Wallace Altaha, R-14, is the one large stockman of the tribe. His herds have long been notorious for the poor breeding and lack of intelligent management. He has always stood against improved breeding. During the winter and spring he has purchased 31 pure-bred Hereford bulls, of fine quality, and 15 grades that are very good Also, during the winter his herds were worked and some 400 or 500 old steers, bulls, and cows gathered and sold. Some of these were 12 to 15 years old, and quite a menace to breeding and proper handling.

These results have been accomplished in spite of the handicap of an inadequate farmer force. There are approximately 250 such positions authorized, with about 80 vacancies at the present time, only 20 farmers having been appointed on certification from the Civil Service during the past year, largely owing to the small salaries that can be paid from the limited funds available for this purpose and the more attractive opportunities outside this service.

That the impetus of the campaign inaugurated last year might be further stimulated, the following follow-up letter was sent out by me on August 15, 1917:

To Superintendents:

Reports show increased acreages cultivated by the Indians this season on practically every reservation, ranging from 5 per cent to 100 per cent, the average being 31.6 per cent. While this is gratifying, it should mark only the beginning of our labors. The reports likewise disclose considerable areas of unused tillable land on the different reservations, with many able-bodied male adult Indians not now engaged in farming or other gainful occupations, the majority of whom undoubtedly should be cultivating their allotments.

But this is only one feature of the campaign. In addition thereto every Indian now farming must be induced to increase his cultivated acreage to the limit of his capacity in man, animal, and machinery power. Present conditions portend a continued and perhaps an increasing shortage of foodstuffs in the Old World and a consequent greater responsibility on the United States to utilize every acre of tillable land in the production of foodstuffs to feed ourselves and our allies. Press home the tremendous import of this fact to employees and Indians alike, with the view of keeping alive and further developing the enthusiasm and momentum of the campaign inaugurated last spring. Two things especially should be strongly emphasized during the remainder of this season: (1) The necessity of the Indians saving seed for next year and of the superintendents making provision for an adequate supply of seed in ample time for next season's planting on the agency and school farms. This is vitally important and must not be neglected, especially in view of partial crop failures in some parts of the country. (2) Fall plowing: On those reservations where

fall plowing is proper, according to the best agricultural practice, effort should be made to have as much land plowed this fall by the Indians and on the agency and school farms as will be put in crops next spring. See that this is accomplished so far as advisable and practicable on your particular reservation.

The reports also indicate an increase of approximately 48 per cent in the acreage cultivated on the agency and school farms. This could not have been accomplished without the whole-hearted cooperation of superintendents and employees, and I wish here to express my appreciation. However, the success of the past season should only spur us on to greater efforts to bring under cultivation as much of the unused tillable land on the agency and school farms as can be handled properly consistent with available facilities and funds. Example is much stronger than precept, and if we expect our appeal to the Indians to be effective, we must surpass our own record of the past season on the agency and school farms.

Please acknowledge receipt of this letter, with information as to the plans which you have formulated to increase the number of Indians farming and the total cultivated acreage, and to provide for the necessary seed to meet the needs of the Indians and the Government.

The important subjects of food conservation by the elimination of waste and cooperation with the National and State food administrations, canning and drying, cooperative extension work with the United States Department of Agriculture and the various State colleges, bee culture, and the utilization of surplus Indian labor were also emphasized during the year and are more fully referred to in connection with war activities in this report.

STOCK RAISING.—During the past year the need for increased food production has been brought to the attention of the Indians and the employees of the Indian Service with a view of having them exert their energies toward the development of the live-stock industry on all Indian reservations in order that meat production might be increased. The scope of the activities necessary to accomplish this can best be presented by reproducing my instructions to superintendents and others under date of May 2, 1918, as follows:

To the Superintendents:

The Indian Service, and by that I mean the Indians and the employees of the service, has responded effectively to the war call for increased food production along all lines, and in every way has shown a willingness and ability to do its part. Large areas of hitherto unproductive agricultural lands have been brought under cultivation and the live stock grazing on Indian lands has been materially increased, so that the grain, meat, and other food supplies of the country have been largely augmented by the energetic handling of Indian resources.

But while I feel that the results of the past year's work have been splendid, I am sure that this year, by reason of the valuable experience gained last year, can be made to show greater results, both to the country and to the Indians themselves. It is with that purpose in view that I want to call your attention to several things which 1 believe will greatly increase the output of meat and other live-stock products through the efforts of the Indians themselves and the more intensive use of their grazing lands.

At the present time, when requests are made by cattlemen for grazing lands, I am telling them that practically all the Indian lands are carrying stock to their full capacity, and this is literally true as conditions now exist; but I am convinced that proper

attention given to certain factors of the grazing problem will enable us to increase the capacity and output of the Indian ranges to a surprisingly large extent. These factors are:

- 1. Water supply.
- 2. Fencing.
- 3. Winter protection, including proper relation of summer and winter grazing.
- 4. Wild or worthless horses.
- 5. Predatory animals.
- 6. Scrub stock.
- 7. Care and handling of bulls.
- 8. The salt supply.
- 9. Winter feeding.

I want you to take up the subjects enumerated in the preceding paragraph and make a careful study of conditions on your reservation with respect to each one of them.

WATER SUPPLY.—Probably the most important factor in connection with the utilization of grazing ranges and the one where most effective improvement may be made is that of water supply. There are ranges where large areas of grass are never eaten over because of the distance the cattle must travel in grazing to and from water. On nearly all of these ranges it is possible to develop water at points so located as to make the entire range available; or, if not all of it, at least to largely increase the grazing capacity, and this at a cost so as to be well within the bounds of practicability. To allow this waste of grass to continue is unbusinesslike and indefensible, and I want you to be exceedingly careful in your investigation of the water supply on the grazing lands of your reservation.

It makes no difference whether the range is used by the Indians or is under permit. If under permit, and you find that the capacity can be increased by water development, the matter will be called to the attention of the permittee, and he will be required to make such development and then stock to capacity, or vacate and the permit given to some one who will. If the needed development is on Indian range, ways and means will be found to do the work. No grass must be allowed to go to waste that can possibly be made available.

After you have carefully gone over the situation sufficiently to enable you to make a general outline of your plans I want you to submit a special report to me on this matter of water supply, and this report should be in my hands not later than July 1, 1918.

Fencing.—First-class fencing is a highly important factor in promoting the stock industry. The out-boundaries of all grazing ranges should be well fenced to prevent controversy between permittees and to protect homesteaders or other occupants of the contiguous lands; it also makes it much easier to keep check on the number of cattle being run by permittees and gives a general feeling of security that is very beneficial.

But important as it is to have the range boundaries well fenced, it is even more essential that all Indian allotments actually being used by the Indians and lying within a grazing range be so fenced as to give adequate protection to the crops and improvements. I am constantly receiving complaints from Indians because of cattle trespassing, due to poor fences. In granting permits hereafter, one of the requirements must be a provision for adequate fencing of boundaries and improved Indian allotments, and this provision must be strictly enforced. Many existing permits contain the provision, but the fences are not being kept up as they should be. Have your fences inspected as soon as possible and take vigorous steps to have them repaired and kept in good condition.

WINTER PROFECTION, INCLUDING PROPER RELATION OF SUMMER AND WINTER GRAZING.—Where the grazing area on a reservation is divided into two or more range;

the division lines should have been so run, if possible, as to give each range the proper proportion of winter and summer grazing, with its share of winter protection. This has not always been done when the ranges were first laid out, and as a result there are ranges that are not carrying the number of cattle they should.

On most reservations the I. D. herd occupies a range set apart for it, and if in any instance this I. D. range does not have good winter feed and protection, and other ranges under lease or permit do have it, I desire that some rearrangement be made at the first practicable opportunity, so that the cattle of the Indians may have the needed protection. Good management of a cattle range requires the conservation of grass on some part of it for winter use, and this should be accomplished by keeping the cattle off of such parts of the range during the summer as are most suitable for winter grazing. In some cases this can be done by riders, but probably in the majority of cases a dividing fence is the most economical and efficient method of dividing the summer and winter ranges. Of course, no hard and fast rule can be laid down to cover this phase of the grazing question since so many different factors enter into its consideration, but I want to impress each superintendent with the importance of giving the subject careful attention along the lines suggested.

WILD OR WORTHLESS HORSES.—The grass being consumed each year by wild horses, and also worthless Indian ponies, if eaten by cattle or sheep would bring a revenue at least five times as large to the Indian owners and would have a material bearing on the world's meat supply. A very conservative estimate of the total number of these animals on Indian reservations would be not less than 75,000 head, and since two horses consume as much feed as three head of cattle, this is equivalent for pasturage of 112,500 head of cattle, or at the ratio of five sheep to one of cattle—562,500 head of sheep.

The horses included in the above estimate are only those which have never been improved by breeding, and they are running on territory which makes it exceedingly difficult to accomplish much in the way of upbreeding, and where the difficulty of catching them largely prevents the Indians from disposing of them at the proper time, hence they remain on the range far beyond the time of greatest profit; in fact the larger proportion of these horses die from old age, disease, or lack of feed during hard winters, so that the owners never get anything for them.

The extreme need of the country for meat and wool will not permit of any delay in working out the problem of ridding the ranges of these worthless horses. We must expect opposition from some of the older Indians and from the nonprogressive Indians generally. This opposition is not based, so far as I can learn, on mere contrariness or desire to be obstructive, but because they retain the old idea that the power and influence of the man was largely in proportion to the size of his pony herd; and it occurs to me that this very habit of thought may be turned to splendid advantage in inducing the Indians to increase their holdings of cattle and sheep, if the greater value of cattle and sheep can be impressed upon them.

If, after everything possible in the way of persuasion has been tried, the Indian still refuse to dispose of worthless stock, I believe the superintendents should be authorized to require that each Indian keep this class of horses within fenced inclosures, and that all such horses found on the open range should be seized and sold, the proceeds to be turned over to the owner of the brand, less the cost of capture and shipment.

I desire that every superintendent on whose reservation this problem exists give the matter his best thought and attention and that reports be made to me at an early date with recommendations covering plans for disposing of horses of the class herein discussed.

PREDATORY ANIMALS.—I find that on many of the larger and more unsettled reservations there is a considerable loss each year from predatory animals. Some of the

Indians, lessees, and permittees are very active in ridding their ranges of these pests while others are careless and do practically nothing. This "do-nothing" policy results in the propagation of stock-killing animals which range far beyond the boundaries of the careless stockman, causing loss to other lessees and to Indians whose cattle are either with the lessees' stock or on the range set aside for exclusive Indian use.

I want the superintendents to take up this matter of predatory animals with the Indians, and with each lessee and permittee, and insist that vigorous measures be taken to destroy them. In this connection it is suggested that the cooperation of the lessees, permittees, Indians, and superintendent would make possible a comprehensive and thorough campaign which would be far better than desultory and unconcerted effort on the part of each.

Scrub stock.—Indian cattle run on many of the ranges which are under lease or permit, and because of this, if for no other reason, the lessee or permittee should be required to keep only first-class bulls in order that the Indian stock may be bred up. This is just as essential for the good of the lessee or permittee as it is for the Indian, and the country at large constitutes another interested party because of the fact that a first-class beef-producing animal will consume no more grass than will a poor scrub animal that will go to the market weighing less than half as much.

On some reservations it has been found difficult to induce the Indians to use good male stock on account of the seemingly high prices at which first-class breeding animals are sold. Many of the Indians, when starting out for themselves, have perhaps two or three head of the stuff, and, of course, it would not be practicable to require each of these small owners to provide a pure-bred bull for his stock. However, this difficulty is overcome in some instances by following a sort of community plan whereby bulls are provided from tribal funds and the Indians are required to pay pro rata for their services, and this plan should be followed generally.

In the case of an Indian who owns sufficient she stuff to require the entire service of one or more bulls, it would certainly not be any hardship to require him to provide a first-class animal, because it would pay him to dispose of enough of his she stuff to enable him to make such purchase.

Of course, it goes without saying that every superintendent and every stockman and farmer should talk "better stock" to the Indians, in season and out of season, and be ready to help the moment an Indian evinces a desire to raise better stock.

CARE AND HANDLING OF BULLS.—In all tribal herds, and among Indian-owned range cattle as well, the bulls should be held apart from the she stuff during such part of the year as will prevent the dropping of calves at an unseasonable time. The proper breeding season varies according to the location of the range, but generally the bulls should be gathered at the time of the fall roundup and held in separate range until after the following spring roundup, when they should be thoroughly distributed over the range.

This segregation of the bulls, in addition to insuring the dropping of calves at a time when weather conditions are apt to be favorable also affords the opportunity to give special care and attention to the bulls during the winter. The bull pasture should be kept free of stock during the time the bulls are with the herd, so as to conserve the natural feed for the winter. In addition to this, extra feed, consisting of hay, and in some cases a little grain, should be provided, to be used when necessary to keep the animals in good condition. In short, do everything possible to have the male stock in first-class physical condition when turned onto the breeding range. When placing the bulls with the herd be careful to have them well scattered, and have the range riders see to it that they keep well apart and do not bunch up or become separated from the remainder of the herd.

The number of bulls required for a given number of cows varies with the condition of the range, the water supply, and age of the bulls. Give the matter careful thought and attention and see to it that enough bulls are on the range to insure adequate service.

THE SALT SUPPLY.—It is of great importance that all cattle ranges be well supplied with salt. This is in many respects essential to securing the best results, and each lessee or permittee must be required to distribute salt over his range in appropriate places and in sufficient quantities to meet the needs of the animals. Where tribal herds are run, the superintendent should see to it that the range occupied by the herd and individual Indian cattle is well supplied.

WINTER FEEDING.—In past years, when the western country was open grazing for all comers, it was the practice among cattlemen to let the stock rustle for themselves the year around. As a general rule, the cattle came through the winter in pretty fair shape, because the cattlemen had almost unlimited territory from which to select their winter-grazing ranges, but conditions have changed, and the cattleman now finds himself restricted to a limited range on which, in all probability, there is no good winter protection, and if he wants to bring his cattle through he must in many cases provide protection and feed, at least for the weaker cattle, and the proportion of fed cattle is rapidly increasing each year.

Good business practice requires that animals worth from \$80 to \$150 apiece be not allowed to die for want of a little protection and a few dollars' worth of hay and grain; the need of the country for conservation of all foodstuffs, including meats, also demands that no cattle be allowed to starve or die from exposure during the winter.

In view of the foregoing it is incumbent upon every superintendent to wage a vigorous campaign each summer to induce every Indian cattle-owner to put up sufficient hay to carry his stock through the winter, and further, wherever the severity of the climate makes it advisable, the Indians should be required to provide sheds or other artificial protection.

In the case of tribal herds the superintendent should take up early in the season the matter of providing hay for winter feeding, so as to get on the market for the first cutting, when the price is usually the lowest and the quality the best. Plenty of hay is the best insurance against loss. And as one of the primary reasons for the establishment of the tribal herd, in most instances, was to provide a market for the Indians' hay, it should be the aim of the superintendent to have the Indians furnish every ton possible, after putting up an ample quantity for their own individual needs. The advantages of this home market for their hay should be preached to the Indians constantly as an incentive to greater efforts along farming lines, thus demonstrating the value of the combination of stock raising and farming.

On northern reservations, where the danger from sudden severe storms is ever present during the winter months, it would be advisable, where practicable to do so, to gather the poorest cattle on the fall roundup and throw them into a fenced pasture held in reserve during the summer and where they could be easily gathered for feeding when the storms come on.

The superintendent should carefully observe the practice of the lessees or permittees on his reservation, and if any of them are careless with respect to winter protection and feeding, and allow their cattle to die of neglect, this fact should be reported to me, in order that steps may be taken to stop the waste, and, if necessary, cancel the permit and give the range to someone who will take proper care of the stock and thus conserve the meat supply.

I have gone somewhat at length into the various phases of the cattle business, with a view to making proper use of the grass on Indian reservations. I do not want any ranges overstocked; in fact, I am afraid that under present conditions there are some reservations where too many cattle are now being run, and it this is the case the results will be an eventual loss of cattle more disastrous by far than would be the loss from allowing some of the grass to go to waste. There is, however, a point of efficiency in this matter, which is reached when well-bred cattle are eating all the grass that can be made available on Indian reservations, and it should be the ambition of every superintendent to reach this point on his reservation.

These suggestions have met with a hearty and gratifying response from the field employees, Indians and lessees, largely due to the fact that it is in line with the aggressive policy of the Indian Bureau for the last five years to utilize the natural resources of the reservations to the greatest possible advantage.

I regard the water supply in connection with stock raising as of very great importance. It is the essential factor in increasing the carrying capacity of a large part of the grazing lands on Indian reservations. This is particularly true in the Southwest, where, I believe, sufficient water development can be secured, at a justifiable expense, to more than double the present carrying capacity.

Sinking wells on grazing lands during the last year or two in sections of the country where rainfall is almost unknown has, altogether, given gratifying results, and it is my purpose to intensify these activities, not only in sinking wells, but in impounding the flood waters which at rare intervals fall from cloud-bursts and which, together with melted snow from higher elevations, rush in great torrents over countless acres of thirsty territory.

Marvelous results have been secured from irrigating arid and semiarid lands for agricultural purposes, and it is equally important that the vast area of grasslands, now practically worthless for want of stock water, be made, by similar means, to sustain the herds it would then support.

My nearly six years experience as Commissioner of Indian Affairs, during which, among many other things, I have had to do with the administration of immense irrigation projects and the handling of millions of cattle, sheep, and horses, largely in sections of the country where rain seldom falls or where devastating droughts frequently occur, has convinced me that the most important constructive accomplishment now demanded is the proper development, conservation, and use of water.

EXPERIMENTATION.—The operation of the cooperative experimental farm at Sacaton, on the Pima Reservation, by this office and the Bureau of Plant Industry of the Department of Agriculture was continued during the year, with the view of developing seeds and plants specially adapted to conditions on the Indian reservations in that part of the county. The results have justified the establishment of this farm, which has been somewhat enlarged in order to increase its usefulness to the Indians, and three wells have been drilled for the purpose of providing additional irrigation water.

An experimental date farm was established at Palm Springs, on the Malki Reservation, in California, in cooperation with the experts of the Department of Agriculture, by whom work is also being carried on at Fort Berthold, San Juan, and Shoshone. INDIAN FAIRS.—The policy of holding agricultural fairs on the Indian reservations has been continued during the year, with increasingly successful results. The first fair of this nature was held on the Crow Reservation in 1906, the number being gradually increased each year until, in 1917, 58 such fairs were held. At these fairs the Indians displayed their agri ultural products, live stock, etc., in competition with each other, suitable prizes being awarded on best exhibits. Most of the fairs are managed entirely by the Indians, which gives them training in business administration and organization.

Numerous Indian exhibits were also made at county fairs, likewise with good results, the Indians winning many prizes in competition with the whites. In addition, displays of Indian products were shown at nearly every State fair in States where Indian reservations are located, which were equally successful in showing the agricultural progress of the Indians. At the South Dakota State Fair Baby Show the first prize was awarded to Guy M. Howe, jr., an Indian baby from the Crow Creek Reservation, who scored 95.5 per cent out of a possible 100 per cent in competition with babies from all over the State.

FIVE CIVILIZED TRIBES.

The area of the Five Civilized Tribes aggregated 19,525,966 acres, of which 15,794,208 acres have been allotted to the enrollees of said tribes or to their heirs. By various acts of Congress and by approval of the Secretary of the Interior restrictions against alienation of allotted lands by allottees have been removed from 12,825,196 acres, leaving as restricted acreage 2,888,162 acres, or about 18.3 per cent of the entire allotted area. One hundred and thirty-nine thousand two hundred and eighty-four acres of tribal lands have been reserved for town sites, railroad rights of way, churches, schools, cemeteries, etc.

The total enrollment of the Five Civilized Tribes, corrected to date, is 101,506, including Freedmen, to which enrollees, with few exceptions, there have been made complete allotments of land or payments of money in lieu of or in equalization of allotment. Of the above-mentioned enrollees, 78,101 are citizens by blood, adoption, or intermarriage, 26,774 being full-blood citizens; 23,405 enrollees are Freedmen. There are at present 23,441 of the enrollees who are in the restricted class of Indians; that is, Indians whose allotments are restricted as to alienation and whose funds derived from said allotments or from the individual shares of the tribal funds are subject to Government supervision. Looking to the carrying out of the purposes of the agreements with the Five Civilized Tribes and acts of Congress for the disposal of the tribal property

and the closing of the tribal affairs of said Indian Nations, further sales of the tribal land have been held during the year, and further per capita payments of about \$3,000,000 have been made.

To date of June 30, 1918, 3,558,165 acres of tribal lands of the several Five Civilized Tribes were sold for an aggregate of \$20,249,-032.58, being \$4,505,563 more than the appraised value, an average of \$5.39 per acre. Of the total acreage sold, 1,905,139 acres of unallotted land brought \$10,625,324; 385,935 acres of the surface of the segregated coal and asphalt land, Choctaw and Chickasaw Nations, brought \$3,328,731; and 1,267,821 acres of Choctaw and Chickasaw tribal timber lands brought \$6,294,977. There remain unsold of Choctaw and Chickasaw tribal lands 324 acres of school lands with improvements, 2,280 town lots, and 14,800 acres of Choctaw and Chickasaw tribal lands, including 7,700 acres of timber land, 6,700 acres of the surface of the coal and asphalt land, and 400 acres of other unallotted tribal lands, which will be offered for sale at public auction from October 9 to October 17, 1918.

The coal and asphalt deposits, leased and unleased, underlying the surface of 441,107 acres of the segregated mineral land in the Choctaw and Chickasaw Nations, Okla., will be offered for sale at public auction to the highest bidder, at McAlester, Okla., on December 11, 12, 13, and 14, 1918. Three hundred and twenty-eight thousand two hundred and seventy-six acres of unleased lands will be first offered for sale to be followed by an offer of 112,831 acres of leased lands. The coal and asphalt deposits are appraised in the aggregate at \$14,461,041.73.

Eleven thousand six hundred and ninety-five acres of Choctaw and Chickasaw tribal timber land in McCurtain County have been sold to the State of Oklahoma for a game preserve for \$71,718.05, as authorized by the act of Congress approved May 25, 1918, Public No. 159, 65th Congress. The coal and asphalt deposits, both leased and unleased, underlying the surface of 441,107 acres of segregated mineral land in the Choctaw and Chickasaw Nations, appraised at \$14,461,041.73, will be sold at public auction to the highest bidder on December 11, 12, 13, and 14, 1918, as authorized by the act of Congress approved February 8, 1918, Public No. 98, 65th Congress.

Competency commissions have visited allottees of the Five Civilized Tribes during the fiscal year and are still at work to ascertain who are competent and capable of handling all transactions affecting their allotted lands without departmental assistance.

There were constructed during the year 127 houses, at a cost of \$134,466.67; 51 barns, at \$22,912.95, and 96 wells, at \$8,093.94. There were purchased 472 horses and mules, at a cost of \$63,739.78; 494 cattle, at \$35,766.84; 509 hogs, at \$13,088.66, and 228 wagons, at \$35,092.15. Miscellaneous farm implements were purchased at a

total cost of \$25,544.10. There was disbursed on account of per capita payments, improvements, and individual cash payments to Indians, salaries and expenses, a total of \$12,455,146.08. There was received of individual and tribal funds and congressional appropriations a total of \$16,175,520.73, showing a grand total of all moneys handled for the Five Civilized Tribes during the fiscal year of \$28,630,666.81.

Four thousand Indians of the Five Civilized Tribes have entered the United States Military Service. Six million nine hundred and twenty-three thousand six hundred and seventy dollars of the individual Indian funds of restricted Indians of the Five Civilized Tribes have been invested in Liberty loan bonds and war-saving stamps.

In the Cherokee Nation all the land and tribal property of said tribe has been allotted, sold, or otherwise disposed of except 30 acres erroneously platted as allotted land. The only unfinished work is in relation to the disposition of said 30 acres, the completion of per capita payments heretofore authorized, execution of 138 deeds to allottees, and 3 deeds to purchasers of unallotted land, and the settlement under the provisions of section 18 of the Indian appropriation act of May 25, 1918, of all claims against said tribe.

In the Seminole Nation all the tribal land and property of the Seminole Nation has been disposed of except 122 acres of unallotted land and 640 acres of land that was reserved for a tribal school. The remaining work to be done relates to the disposition of said remaining tracts of land, the completion of the per capita payments heretofore authorized out of the tribal funds, and the execution and delivery of a few deeds to allottees and purchasers of tribal land.

In the Creek Nation the unsold tribal property consists of the tribal council building in Okmulgee, 124 town lots in Muskogee, Tulsa, and Lee, 353 acres of tribal land, and 3 tracts of school property. The value of said unsold property is estimated at \$272,650. The remaining unfinished work relates to the sale or disposition of said tribal property, the equalization of allotments, investigation of alleged duplicate and fraudulent enrollments, and in connection with suits instituted to recover for the Creek Nation certain valuable oil and gas lands, including the beds of the Arkansas and Cimarron Rivers within said nation.

OIL AND GAS IN THE FIVE CIVILIZED TRIBES OF OKLAHOMA.

The total production of oil from restricted Indian lands in the Five Civilized Tribes during the fiscal year ended June 30, 1918, amounted to approximately 13,000,000 barrels of oil from about 116,000 acres. The revenue to the tribe from oil and gas production during the fiscal year amounted to about \$4,000,000. These

oil and gas leases cover allotted lands and are made for a period of 10 years or as long thereafter as oil and gas is found in paying quantities, except leases covering lands of minors which are made to expire when the minor becomes of age, unless oil and gas is found in paying quantities. The leases provide for a royalty of one-eighth of the gross proceeds of the sale of the oil on the basis of the highest price posted by a responsible purchasing company.

On August 10, 1917, regulations were promulgated governing the utilization of casing-head gas produced from oil wells. The regulations provide that the gasoline productivity of the casing-head gas per thousand cubic feet shall be determined by a physical field test of the gas, the royalty being computed at 12½ per cent on the basis of a fixed schedule according to the yield of gasoline per 1,000 cubic feet and the sale price of the refined product.

OSAGE OIL AND GAS LEASES.

On November 12, 1917, February 14, 1918, and May 18, 1918, there were sold at public auction at Pawhuska, Okla., leases covering certain Osage lands for oil-mining purposes, aggregating 90,286 acres, for a bonus consideration of \$3,258,312.50, an average of about \$36 per acre. These lands consisted of scattered tracts on the east side of the reservation selected with the object in view of opening up new pools of oil. Leases covering these tracts are for a period of five years and as long thereafter as oil is found in paying quantities, and provide for a royalty in addition to the bonus consideration of 163 per cent, except when wells on quarter-section tracts or fractional parts of quarter sections are sufficient to average 100 or more barrels per well per day. The royalty on oil produced is 20 per cent.

The Osage Reservation under which oil and gas is reserved to the tribe until 1931 comprises approximately 1,500,000 acres, of which 680,000 acres on the east side were leased for oil and gas under a blanket lease authorized by Congress, which expired March 16, 1916. New leases have been made covering about 919,000 acres for gas and about 323,000 acres for oil; the oil leases aggregating about 323,000 acres are included in the 919,000 acres leased for gas.

On June 30, 1918, there were 1,450 dry and abandoned wells in the Osage Reservation, 3,755 producing oil wells, and 364 gas wells. The gross production of oil from July 1, 1917, to June 30, 1918, amounted to 10,906,376.59 barrels, of which the Osage tribe received as royalty 1,842,692.21 barrels. The total receipts of the Osage tribe from oil and gas leases from July 1, 1917, to June 30, 1918, amounted to approximately \$8,000.000.

OPENING THE WEST SIDE.—Advertisements have recently been approved and authority granted to offer for lease for oil-mining purposes on November 9, at public auction sale at Pawhuska, Okla.,

approximately 15,000 acres on the east side of the Osage Reservation, that is, east of range 7, and approximately 28,000 acres on the west side, that is, west of range 8. Authority was also granted to offer for lease for gas mining purposes on November 9, approximately 315,000 acres on the west side. No leases have heretofore been made on the west side of the Osage Reservation for oil or gas mining purposes. As the time during which the title to the minerals will remain in the Osage tribe will expire on April 8, 1931, unless otherwise provided by Congress, and in view of the demand for an increased production of oil to meet existing conditions, it has been decided to make this opening on the west side as the initial lease sale on this vast, heretofore practically untouched territory of supposed-to-be oil-bearing lands.

OIL AND GAS OUTSIDE THE FIVE CIVILIZED TRIBES AND OSAGE NATION.

There has been considerable activity in the oil and gas industry in Oklahoma outside the Five Civilized Tribes and the Osage Nation during the past fiscal year.

The bringing in on March 9, 1918, of an oil well with an initial production of several hundred barrels per day greatly stimulated oil and gas leasing on the Kiowa Reservation. Since that time Indians having allotments in the vicinity of this well have received exceptionally high bonuses, the largest being at the rate of \$755 per acre. This is reported to be the highest rate of bonus ever paid in that field, regardless of the distance from the well.

Several wells with a large initial production have also been brought in on the Ponca Reservation, and at Pawnee 12 producing wells were drilled.

One hundred and twenty-five tracts of land on the ceded part of the Shoshone Indian Reservation, Wyo., each containing 160 acres, or less, were advertised for oil and gas mining leases, bids being opened on October 10, 1917. Seventy-four tracts were bid in and leases covering 69 tracts have been regularly executed. Under the terms of the advertisement and the leases the lessee is required to drill at least one well on each tract within one year from the date of execution of the lease by the Secretary of the Interior. The drilling of wells during the calendar year will largely determine whether the land on the ceded part of the reservation is valuable for oil and gas.

PROBATING INDIAN ESTATES.

The probating of the estates of deceased Indians, under the provisions of the act of June 25, 1910 (36 Stats. L., 855, 856), for the fiscal year ending June 30, 1918, progressed very satisfactorily. During the year 2,415 cases were finally disposed of.

The heirs of deceased Indians also must be determined where personal property of a value less than \$250 is involved; where Indians hold restricted fee patents, in which no fee can be collected; where Indians hold inherited interests at a value less than \$250, and cases in which modifications were made in the original findings. One hundred and fifty-seven cases, coming within these classes, were disposed of.

One hundred and fifty-five Indian wills were finally acted on. There were also disapproved during the year 22 wills.

There are now employed in the field 12 examiners of inheritance, who are engaged in conducting hearings on 28 of the reservations and on the public domain.

In addition to the above, 3,745 miscellaneous cases were disposed of and 7,586 letters were written.

PROBATE WORK IN OKLAHOMA.

In previous years the reports related to the probate work in the Five Civilized Tribes have been largely statistical, but it is intended by this report to explain more particularly the aims of the probate service and to explain the nature of the various lines of work and to describe the ends attained as a whole.

Bearing in mind that the courts of Oklahoma have been given jurisdiction by acts of Congress over the estates of minor and other incompetent members of those tribes, it will be readily appreciated that in a jurisdiction comprising 40 counties, marvelously rich in deposits of oil and gas, of lead and zinc, and of coal and asphalt, from which "rich streams of revenue gush forth," that are materially augmented by the returns from great crops of wheat, corn, cotton, and other staples, into swollen streams of wealth, there will necessarily be vast properties, collectively speaking, as well as large individual estates, which must be disposed of by those tribunals in such a way as to conserve and promote the interests of many Indian citizens or to throw them and their estates upon the mercy of designing speculators who in every community stand ready to prey upon those who most need protection.

And in connection with the foregoing it is an impressive fact that the number of names of restricted Indians appearing upon the approved rolls of the Five Civilized Tribes is upward of 37,000, of which nearly 27,000 are full-blood Indians. No proof is necessary to show that a multitude of cases will arise affecting these Indians and their heirs.

It is the duty of the probate attorneys—a duty which they fully appreciate and faithfully attempt to discharge—to stand guard like sentinels over the property and persons of these Indian wards. To

perform this duty it is necessary for the probate attorneys to keep an ever-vigilant eye upon the dockets of probate cases in the several counties assigned to them and to take whatever action that may be necessary in the premises, either by institution of civil suits or criminal prosecutions.

With respect to guardians and other trustees it is the aim of the probate attorneys to scrutinize their every act to the end that they shall be held to the faithful discharge of their trust, and as a result of this vigilance many of the guardians have been removed or discharged and others, found to be more worthy, have replaced them; in like manner it has been necessary for the probate attorneys to maintain a constant watchfulness with respect to the financial status of each case, to ascertain in each instance whether the bond is adequate, to require a new bond whenever necessary, and to take appropriate action to recover from bondsmen or other sureties whatever losses may result from the misconduct of their principals.

With such care there has resulted a great conservation of Indian money which, under the direction of the probate attorneys, has been applied to useful and beneficial purposes instead of being recklessly squandered. Investments have been made in homes, in land, in interest bearing securities, and the purchase of Liberty bonds. Thus the probate attorneys have been instrumental in teaching the great financial lesson that saving is not for the purpose of hoarding alone, but rather for profitable use.

There is an ever present attempt on the part of land speculators to induce sales of minor lands through the instrumentality of guardians of their own selection, and in some cases such sales have been made upon appraisals made by men chosen for the purpose by the prospective purchasers. This evil has been strenuously opposed by the probate attorneys who seek to keep down as much as possible the number of sales of minors' lands, unless reinvestment of a more desirable nature can be found, and to insist upon the highest prices possible through appraisals by the regular Government appraisers.

There is another part of the work of these attorneys which can not be expressed by numbers, but it is perhaps more beneficial than any other work performed by them. Reference is had in this connection to the countless daily conferences that are held with the many persons who seek the advice and counsel of these representatives of the Government with respect to matters which affect not only their property but also their personal interests, including the education of their children and other domestic matters which are necessarily involved in the advisory relation which they bear to a dependent people.

Responsive to the call of patriotism the probate attorneys have unhesitatingly contributed their efforts to the national cause in the

war that is now pending, and their numbers have been repeatedly lessened by transfers to the military branch of the Government or to other branches of service where their assistance was needed. And so, while it is true that temporary lapses have occurred in the work of individual districts, it must be realized that each man, in the time available to him at his post of duty, has done his utmost for the probate service until assigned to other work.

A WOMAN PROBATE ATTORNEY.

It may be of interest that during the year a woman was appointed probate attorney. There was general approval of the appointment, and I have reason to believe that this innovation will prove entirely satisfactory. Concerning it and reflecting many similar expressions, the Fort Worth Record, in an editorial, said:

Commissioner of Indian Affairs Cato Sells has appointed Miss Florence Etheridge, of Miami, Okla., probate attorney, with headquarters at Vinita. Her appointment. it is said, is in line with Commissioner Sells's policy of appointing women to responsible positions in the Indian Service. The duties of probate attorney involve the protection of the property of minors and incompetent Indians and the prosecution of wrongdoers in the same connection.

Miss Etheridge was for several years employed in the Probate Division of the Indian Office at Washington, where she demonstrated unusual ability as a lawyer. She is vice president of the National Federation of Federal Employees, and made a vigorous fight before Congress to prevent the passage of the Borland amendment. She is a member of the law firm of Swanson & Etheridge.

There are millions of women wage earners in America. There are millions of girls who are wage earners. There are millions of women and children who are doing farm work. There are millions of women engaged in war-service work. There are millions of women Red Cross workers, and the call has been made for 25,000 Red Cross nurses in addition to those already in the service of their country.

Texas women have been given the primary ballot. Texas women are coming into their own. This is as it should be.

Cato Sells is a champion of equal suffrage. He believes that a woman who does the work of a man should receive the pay of a man. If woman is an intelligent and efficient worker why shouldn't she receive the pay of a man?

REIMBURSABLE FUNDS.

The act of March 2, 1917 (39 Stat. L., 969-973), appropriated the sum of \$400,000 for use in the purchase of seed, animals, machinery, tools, implements, and other equipment, to be sold to Indians under regulations prescribed for its repayment to the Government. The enthusiasm of the Indians in agricultural and stock raising pursuits has been greatly aroused during the year and in consequence of their increased activities the demands for equipment and stock taxed to the fullest extent the limited reimbursable appropriation available. Unfortunately it has been necessary in many instances

to withhold plans for new development work in order that the most urgent needs might be cared for. Through the use of the money available, however, a large number of Indians have been able to accomplish a vast amount of improvement work on their lands which would not have been possible without the reimbursable assistance given them. The Indians on some of the northwestern reservations are now fairly well equipped so that it will be possible to withdraw much of the aid heretofore given them.

The benefits derived from reimbursable funds appropriated by Congress are being reflected more and more in the industrial improvements on all of the reservations. The Indians as a rule are cautious in requesting assistance from reimbursable funds and restrict their prospective obligations to actual needs and in amounts which they feel capable of liquidating.

The prospects for the return to the Treasury of the money expended for the benefit of the Indians are exceptionally good. Although the money appropriated for the past' and previous years, excepting \$30,000, under the law need not be returned to the Treasury until the year 1925, it is estimated that more than \$300,000 has already been collected. The sum of \$30,000 appropriated in the act of March 3. 1911 (36 Stat. L., 1058-1062), was under the law available for use until June 30, 1917. The collections from the Indians are more than ample to reimburse this entire appropriation at this time. Notwithstanding the crops last year were comparatively poor, and in fact in some of the places the Indians did not get back the seed they planted in the spring, it is interesting to note the amount which the Indians at some of the northwestern reservations repaid during the fall of last year and the early part of this year. At Crow Agency approximately \$27,000 were returned; at Tongue River approximately \$15,000 were returned; at Blackfeet approximately \$10,000 were returned; at Warm Springs, where the crops were practically an entire failure, approximately \$5,000 were returned. The collections at many of the other reservations were equally as good, indicating that the Indians are rapidly reaching the point where they are deriving incomes through the use of property furnished to them, thereby justifying the inauguration of the reimbursable plan.

At places where tribal herds of sheep and cattle have been established from reimbursable funds for the benefit of the tribes of Indians as a whole, excellent results are being accomplished. The stock itself is ample security for the repayment of the money expended, and the present indications are that all of the money spent for the tribal herds, both cattle and sheep, will be fully repaid and a good margin of profit remain for the tribe.

INDIVIDUAL INDIAN MONEY.

Special attention has been given to the method of handling individual Indian money during the past year. The rules and regulations have been modified materially, making it possible for Indians to obtain their funds more easily, thus giving them a chance to show their ability to manage their own business affairs.

While the general policy of conserving minors' funds has not been changed, a more liberal course was followed in the disbursement of their funds. In the case of minors who were nearly of age their funds were sometimes used to secure higher education or for some special kind of training.

Where the minors were young their combined funds were frequently expended in the purchase of property or for improvements to the homestead, it being realized that a comfortable sanitary home and proper surroundings would be of more value to them than would the small amount of money turned over to them when they reach their majority. Through the use of their own or their children's funds a large number of Indians were enabled to purchase seed and raise crops for the common benefit of the family, which would not otherwise have been possible.

When justifiable, the funds of both adults and minors have been used to purchase Liberty bonds, but this subject is fully gone into in another part of the report.

ANNUITY AND PER CAPITA PAYMENTS.

The practice of placing their funds in the hands of competent Indians for expenditure, without supervision, as announced in my report last year, in conformity with the declaration of policy referred to therein, has been continued, on the whole, with encouraging results, most of the Indians seeming to appreciate the opportunity to handle their own funds and recognizing the consequent responsibility devolving upon them to spend the money wisely, although of course there have been individual exceptions to this rule. How ver, this is the only way the Indians will ever learn to stand on their own feet as independent citizens of the community.

EMPLOYMENT FOR INDIANS.

Economic conditions on many reservations are much the same as last year, in that Indians do not have to leave home to find work in abundance. Their concern in home conditions shows a deepening civic interest. State officers of the Department of Agriculture are cooperating with the Indian Service in utilizing the labor of Indians for general farm work. In some localities wheat and alfalfa hay harvest hands were offered from \$4 to \$6 dollars a day.

Next in importance to raising food is transportation. Owing to the value of motor-driven vehicles in pioneer development it is both practical and profitable to give Indians opportunity to learn the construction and repair of such vehicles, and many of them are placed in the high-class factories, where they are switched from one department to another to receive all-around mechanical experience. In the evening they amplify the day's manual practice by attending automobile schools for theoretical information. Two or three years of combined study and experience will develop first-class mechanics. Over 300 Indians have taken advantage of such factory training.

It is especially necessary to have trained operators for tractors who understand the importance of minor, yet essential, details and can make prompt repairs in the field, when accidents occur, that plowing may not be retarded. Many who have enlisted in the Army and Navy are now repairing trucks, aeroplanes, etc., with the American Expeditionary Forces.

One of the strong, self-reliant Indian boys working in the Packard plant has without compensation looked after the welfare of the Indian workers of Detroit factories by meeting strangers as they reach town, helping them to find the factories to which they have been assigned, etc. State prohibition now gives a wholesome environment at Detroit for Indian youths.

Young men and women of Indian blood are filling clerical positions in the different departments of the Government. Two young girls are officers of the National Service School of the District of Columbia, preparing to become instructors in industrial arts to the soldiers invalided home from foreign service. Indians, both men and women, are selling Liberty bonds and war-savings stamps all over the country. The largest stamp sales of this bureau for one day were made by a little Indian girl. Some of the finest war gardens of the country are planted and cultivated by Indian women. A number of returned students have gladly declared their ability to support the children to release their husbands for war duty. One little full-blood woman pays her mother-in-law to stay home and look after the babies while she works faithfully, and has paid for her home and furniture. The husband is at the front. Many other mothers are doing practically the same thing.

ARKANSAS VALLEY AGRICULTURAL ACTIVITIES.—Several hundred students from six schools of the Southwest again spent their summer vacation working for over 100 farmers and for the American Beet Sugar Co. in the Arkansas Valley. The Indian boys took their band instruments along for bugle calls and concerts and their baseball outfits for recreation. This colony of workers lives in 15 camps scattered through the valley from Garden City, Kans., to Rocky Ford, Colo. Each camp conducts a separate cuisine; a few unemployed

young men in the draft, awaiting call, and the wives of soldiers and sailors who are supporting their families to release men are selected for cooks. Women having small children, who are considered undesirable in many households and for that reason find it difficult to secure employment, are given the preference. The cooks have given special attention to conserving food and eliminating waste, in accordance with Government regulations. They are using the recipes published by the Food Commission.

Twenty-eight thousand dollars covers the aggregate earnings of the Indians for the season; in addition the health of the boys was toned up by out-of-door life, work, and an invigorating altitude.

Letters are frequent from Indians offering their services as carpenters for shipyard work, as tailors, and for other industrial activities. The Indian in khaki is a familiar visitor to the Indian Office. Among callers may be listed clerks, physicians, nurses, privates, noncommissioned and commissioned officers, Red Cross and Y. M. C. A. workers. Their high spirit and purpose and their desire to render service is immensely stimulating.

NATIVE INDUSTRIES.

There has not been as much activity during the past year on the part of the Indians in native industries, due to the diversion of their efforts to agricultural and other pursuits in order to increase the production of food products, so necessary because of existing conditions growing out of the war.

The Navajo Indians have continued to make blankets, though not on such an extensive scale as heretofore. They have been selling their wool for use in the manufacture of clothing and other necessary articles rather than to weave it into native blankets.

There are apparently good markets for most of the better things made by the Indians, either through local trading establishments or the tourist trade; therefore no aggressive campaign was pursued during the year to widen the markets for products of this character.

The lace industry also is more or less inactive, due largely to the inability to get supplies and also to the fact that the Indian women are working in the fields in agricultural pursuits. It is believed this industry in future years will become an important one on many of the reservations, and every encouragement is given the Indians to utilize their spare moments in the making of salable articles to such extent as is now possible.

ALLOTMENTS.

On the Gila River Reservation, Ariz., a special allotting agent is making additional irrigable allotments of 10 acres to each Indian.

Further allotments on the Umatilla Reservation, act of Congress approved March 2, 1917 (39 Stat. L., 969-986), to provide for 80 acres to each living Indian not theretofore allotted, is progressing in a very satisfactory manner. About one-half of the Indians entitled to allotment rights have made selections in the field.

Two hundred and seventy-seven allotments of irrigable land have been made to Indians on the Morongo Mission Reservation, Cal., under authority found in the act of March 2, 1917, but these selections have not been approved.

Reallotments have been made through changes in, and exchanges of, allotments under the acts of October 19, 1888 (25 Stat. L., 611-612), and March 3, 1909 (35 Stat. L., 781-784), on various reservations, more especially on the Cheyenne River Reservation, S. Dak., where many Indians are taking advantage of a better character of land for allotment purposes. Under the provisions of the acts of June 25, 1910 (36 Stat. L., 855-856), August 4, 1912 (37 Stat. L., 534), and June 30, 1913 (38 Stat. L., 94), 71 allotments were made and approved to the Fort Sill Apaches.

A list of the reservations, number of allotments approved during the year, and the number made in the field and not yet approved will be found in Table No. 26.

PUBLIC DOMAIN ALLOTMENTS.

By departmental order of October 27, 1913, the making of allotments under the fourth section of the general allotment act of February 8, 1887 (24 Stat. L., 388), as amended, was suspended, pending the promulgation of new rules and regulations to govern applications made under said act. On April 15, 1918, these new rules and regulations were approved and work is now progressing thereunder.

WHITE EARTH LITIGATION.

On the White Earth Reservation, Minn., a plan for the settlement of litigated cases has been agreed upon and this work is progressing in a highly satisfactory manner. These cases are the outgrowth of the act of June 21, 1906 (34 Stat., 353), removing restrictions as to adult mixed bloods. The act specifically declares that patents to adult mixed-blood Indians of the White Earth Reservation shall be construed to pass the title in fee simple, thus giving the Indians that may be so classified full control of their property. The work of determining just who are mixed bloods is being handled by a commission under the act of June 30, 1913 (38 Stat. L., 88), and upon the completion of the so-called "blood" roll, a basis will be obtained for proper disposition of pending cases.

APPRAISEMENT AND REAPPRAISEMENT OF SURPLUS RESERVATION AREAS.

During the fiscal year many applications for appraisement and reappraisement of surplus reservation areas, otherwise subject to homestead disposition, have been handled. 'Authority for such work is found in the act of June 6, 1912 (37 Stat. L., 125).

EXTENSION OF TRUST PERIODS.

The following table shows the tribes whose period of trust has been extended, number of allotments on each reservation, including public domain, the number so extended, date of expiration of trust, and length of extension:

Tribe.	Allot- ments.	Allot- ments extended.	Date trust period expires.	Ex- tended.
Mission, Cal. (Potrero and Rincon bands)	Tribal. 115	Tribal. 110	1917 1917	Years. 10 10
Ysabel, Sycuan, Temecula, San Manuel bands). Public domain. Devlis Lake, N. Dak. (Sloux). Pawnee, Okla. Onelda, Wis. Tonkawas, Okla	Tribal. 757 872 820	Tribal. 715 872 820 35 27	1918 1918 1918 1918 1918 1918	10 1 10 10 9 10

Authority for these extensions will be found in section 5 of the act of February 8, 1887 (24 Stat. L., 388), the act of June 21, 1906 (34 Stat. 326), and the act of March 2, 1917 (39 Stat., 969).

SALE OF INDIAN LANDS.

During the fiscal year ended June 30, 1918, 662 pieces of allotted land, covering 74,126.24 acres, were sold for \$1,541,177.95 under the provisions of the noncompetent act; 438 pieces, covering 49,216.19 acres, were sold for \$1,174,854.97 under the inherited act. The average price received from both allotted and inherited Indian land is \$22 per acre. This is the largest average price that has ever been received from the sale of Indian land.

FORESTRY.

Subsequent to the declaration of war against the German Imperial Government on April 6, 1917, a special effort has been made in the forestry branch of the Indian Service to place upon the market timber suitable for war purposes and to encourage in every practical way the production of those timber products that would be of spe-

cial advantage in supplying the military and industrial needs incident to the war.

Large sales of timber have been made on the Bad River, Flathead, Fort Apache, 'Klamath, Red Lake and Spokane Indian Reservations. While the timber cut from these reservations has not gone directly into military uses it has, and will, supply needs that arise through the diversion of other timber products to military purposes. Sales of lesser importance have also been made on the Coeur d'Alene, Jicarilla, and Leech Lake Reservations and the timber on allotments under the Nett Lake jurisdiction has been offered for sale.

At the large sawmill operated by the Government on the Menominee Indian Reservation, Wis., an especial effort has been made to produce such products as will be of special use in war industries. Arrangements have been made for the supplying of materials from that mill to a large shipbuilding corporation at Manitowoc, Wis., and other industrial plants. Lumber produced at these mills has also been offered to the Government for the construction of cantonments.

An effort has been made to develop production of special timber products for military purposes on reservations in western Washington and Oregon. On the Tulalip, Port Madison, Chehalis, Swinomish, and Skokomish Reservations sales of timber suitable for the manufacture of ship knees have been effected. Sales of timber suitable for aeroplane construction have been made from the Hoh, Siletz, and Quinaielt Reservations, and arrangements completed for extensive operations in the production of aeroplane material on the two reservations last named.

An effort has been made to locate supplies of black walnut on Indian reservations in the Plains region and to arrange for the disposal of this timber in such manner as to assist the Government in the production of gunstocks and aeroplane propellers. Black walnut is being produced on the Sac and Fox, Osage, Pawnee, Kiowa, Winnebago, Eastern Cherokee and other reservations.

During the autumn of 1917 the eastern portion of the Spokane Indian Reservation was cruised and a contour map prepared. The information thus obtained was immediately used in the offering of about 275,000,000 feet of timber for sale.

Because of the enlistment and calling of technical men into the military forces of the United States and the difficulty of obtaining suitable employees for appraisement and map work the making of valuation surveys has been practically suspended. During the summer and autumn of 1918 the timber will be cruised on allotments of the Siletz Reservation and on the nonreservation allotments in Oregon and northern California which are now under the jurisdiction of the Siletz and Greenville Indian Schools.

The general regulations and instructions for officers in charge of forests on Indian reservations, which were first approved on June 29, 1911, and modified on March 17, 1917, were revised and approved on February 5, 1918.

A new form of scale book and several other books and forms for the keeping of records of timber operations on Indian reservations were devised, printed, and distributed. The introduction of these forms will greatly promote efficiency and uniformity in timber records at agencies.

Detailed information regarding the stand of timber, the number of sawmills in operation and the amount of timber cut from each Indian reservation will be found in the Statistical Appendix to this report.

ROADS AND BRIDGES.

The important place occupied by good roads in contributing to the industrial welfare and progress of the Indians has been further recognized during the year by the expenditure from the regular appropriations of thousands of dollars for Indian labor in the construction and repair of roads and bridges on the different reservations, besides specific appropriations of \$42,500 for two bridges across the Little Colorado and Canyon Diablo Rivers near the Leupp School, in Arizona; \$10,000 for road work on the Chippewa reservations in Minnesota; \$15,000 on the Gallup-Mesa Verde National Highway across the Navajo Reservation, in New Mexico; and \$25,000 for roads and bridges on the Shoshone Reservation in Wyoming.

PURCHASE OF SUPPLIES.

Recognizing the unparalleled need for supplies of all kinds for the Army and Navy, the Indian Service has tried to fill its requirements from those lines which would least interfere with the proper conduct of the war. The service has closely cooperated with the United States Food and Fuel Administrations, their State officers. with the War Industries Board and subordinate branches, and with other organizations established for the purpose of regulating the production and use of materials and supplies. The rule requiring the use of flour substitutes has been strictly enforced. Woolen uniforms have been dispensed with for the time being, and requirements in other lines curtailed. Taking into consideration existing conditions affecting both the purchasing of supplies and their transportation to the points of consumption, the Indian Service has fared very well. The service was indeed gratified at the manner in which its coal supply was furnished and delivered during the past winter. but little or no trouble being experienced through delay in the delivery of coal even at the most remote points using that kind of

fuel. To aid in the conservation of coal, wood is being used more than heretofore and to the greatest extent possible. Prices in all lines naturally were abnormally high, but were in keeping with market conditions.

NEW SYSTEM OF BOOKKEEPING AND ACCOUNTING.

The "fund accounting" feature of the new system of bookkeeping and accounting referred to in my last annual report (p. 54) was installed as of July 1, 1917, and disbursing officers at this time are generally familiar with its requirements and able to make fairly prompt and accurate reports of their financial operations thereunder. The "general accounting" feature was installed at most of the units at various times during the year, but some of the disbursing officers, for one reason and another, failed to get it in efficient working order, with the result that no reliable reports of cost by activities would be possible this year.

To aid in the installation and operation of the new system of book-keeping and accounting, as well as to obtain a more effective checking of the accounts of disbursing officers in the field, three expert accountants were selected from the field clerical force and appointed as traveling auditors. The results obtained thus far have fully justified the plan.

LEGISLATION.

Congress passed the Indian appropriation act on May 25, 1918, aggregating approximately \$11,000,000, for the usual appropriations for the current and contingent expenses of the Indian Service. Among the items of especial interest are the following:

Irrigation appropriations were made for specific projects by districts. These sums, together with appropriations for irrigation employees, surveys, and incidental expenses, total \$250,750. Congress provided, however, that no part of the appropriation was to be expended on any irrigation system or reclamation project for which public funds are or may be otherwise available. It also provided that the appropriations were to be available interchangeably for necessary expenses for damage by floods and other unforeseen accidents, the amount so interchanged not to exceed in the aggregate 10 per cent of the amount so appropriated.

On and after September 1, 1918, possession by a person in the Indian country where the introduction of liquor is or was prohibited by treaty or Federal statute shall be an offense and punishable in accordance with the acts of July 23, 1892 (27 Stat. L., 267), and January 30, 1897 (29 Stat. L., 506).

The annual per capita cost for schools was limited to not to exceed \$200 unless the attendance numbered less than 100 pupils, in which

case the per capita expenditure of not to exceed \$225 may be authorized. The number of pupils entitled, in any one school, to the per capita allowance shall be determined by taking the average attendance for the entire fiscal year and not any fractional part.

The sum of \$10,000 was appropriated for the construction of a fence along the international boundary line between Mexico and the Papago Indian Reservation in Arizona.

Hereafter no Indian reservations shall be created, nor shall any additions be made to any heretofore created, within the limits of the States of Arizona and New Mexico, except by act of Congress.

The Florida Seminole Indians are given an appropriation of \$10,000 for civilization and education, including the construction and equipment of necessary buildings on lands set aside by the State of Florida, by act of its legislature, for the perpetual use of said Indians.

An appropriation of \$75,000 is made for the relief of distress among the full-blood Choctaw Indians of Mississippi. This is for the purpose of payment for employees, the establishment and maintenance of schools, purchase of lands, encouragement of industry and self-support, and purchase of seed and agricultural implements.

The withdrawal from the Treasury of the United States of the sum of \$200,000 of the tribal funds on deposit to the credit of the Crow Indians in the State of Montana is authorized for the purpose of necessary improvements to the irrigation systems in the Big Horn Valley on that reservation.

The sum of \$25,000 is appropriated for continuing work on the Indian highway extending from Mesa Verde National Park to Gallup, N. Mex.

The proviso to section 1 of the act of March 4, 1907 (34 Stat. L., 1413), relating to the expenditure of the proceeds derived from the sale of timber on the Jicarilla Reservation was amended so as to authorize the expenditure of said proceeds, with the consent of the allottees whose property is appropriated, in the purchase of live stock, seeds, agricultural equipment, and for other community or individual purposes beneficial to the Indians.

The sum of \$8,000 is appropriated for the construction of a bridge across the Oconalufty River near the Indian School at Cherokee, N. C.

The act of May 28, 1908 (35 Stat. L,. 460), and the act of February 14, 1913 (37 Stat. L., 675), was amended so as to authorize the per capita distribution to the Standing Rock Indians, or the use of such moneys arising under the acts mentioned for their benefit.

Receipts from leasing oil, gas, and other mineral lands of the Osage Indians until the same are paid out as provided by existing law, may be deposited in national or State banks in Oklahoma.

The construction of a fire-proof office building for the Osage Agency is authorized.

Allottees of the Osage Nation may change the present designation of homesteads to an equal area of unincumbered surplus lands under regulations to be prescribed.

The Five Civilized Tribes appropriation contains a limitation prohibiting the use of the appropriation for forwarding to the Secretary of the Interior undisputed claims to be paid from individual moneys of restricted allottees or their heirs, or uncontested agricultural and mineral leases, excluding oil and gas leases. An appeal is, however, authorized.

A per capita payment of not to exceed \$200 to the Choctaw and Chickasaw Indians is provided for.

Not to exceed \$100 per capita is authorized to be paid to the Seminole Indians out of their funds.

The distribution of Creek funds, except \$150,000, so as to equalize the pro rata share received by each member of said tribe in either land or money, is authorized.

The sale to the State of Oklahoma for a game preserve of certain lands within the Choctaw and Chickasaw Nations is authorized.

All claims against the Cherokee Nation are to be filed not later than one year after the approval of the act.

The Court of Claims is authorized to adjudicate the claims of J. F. McMurray, provided adjustment is not made by mutual agreement within 60 days after the approval of the act.

The sum of \$400,000, reimbursable, is appropriated for encouraging industry and self-support among the Klamath Indians in Oregon.

The sum of \$8,000 is appropriated for the education of the Alabama and Coushatta Indians located in Polk County, Tex., and for an investigation to be made as to the necessity and advisability of purchasing land for said Indians.

An additional sum of \$500,000 is appropriated for the Wahpeto irrigation and drainage system in the State of Washington.

The withdrawal of \$300,000 of the tribal funds of the Menominee Indians in Wisconsin for their benefit is authorized.

The expenditure of tribal funds, not exceeding \$2,500,000 during the fiscal year ending June 30, 1919, in addition to such sums as may be required for equalization of allotments, education of Indian children, per capita and other payments to Indians, and expenditures for the Five Civilized Tribes, in accordance with existing law, is authorized.

The withdrawal from the Treasury of the United States of community funds of any Indian tribe which are susceptible of segregation, so as to credit an equal share to each and every recognized member of the tribe, except those whose shares have already been withdrawn, and the deposit of such funds in banks to be selected, subject to withdrawal for payment to the individual owners, is authorized.

COURT DECISIONS.

There were a number of very important decisions rendered by the courts on Indian matters during the past year. The most important decision was that of the Supreme Court of the United States in the case of Brader v. James, which was decided March 4, 1918, wherein the court held that the act of 1906, requiring conveyances by full-blood heirs of members of the Five Civilized Tribes be approved by the Secretary of the Interior was constitutional, even though the lands descended prior to the passage of the act. This was based on the theory that Congress has power to reimpose restrictions on lands allotted to Indians and is the first definite holding of the Supreme Court on this point.

The same court, on November 5, 1917, decided the case of the United States v. Hiram Chase. The decision of the court was to the effect that assignments to individual members of the Omaha tribe under Article IV of the treaty of March 6, 1865 (14 Stat. L., 667), passed only the Indian or tribal right to occupancy; did not pass title in fee, and was not an insurmountable obstacle to the allotment of these lands under the act of August 7, 1882 (22 Stat. L., 341).

In the case of United States v. Soldana the Supreme Court rules that the station platform of the Chicago, Burlington & Quincy Railroad at Crow Agency, Mont., is Indian country within the provisions of the act of 1897 forbidding the introduction of liquor into the Indian country.

In Lane v. Morrison the decision of the court was to the effect that the joint resolution of March 4, 1915, continuing for another year the appropriations for current and contingent expenses of the Indian Department and for fulfilling treaty stiuplations, included the appropriation for promoting civilization and self-support among the Minnesota Chippewa Indians.

The title to the Spokane Indian Reservation was quieted in the Indians of that reservation by the decision of the Supreme Court in Northern Pacific Railway v. Emma A. Wismer. It was held by the Supreme Court that the reservation was legally established and the lands removed beyond the scope of the grant to the railroad.

In Egan v. McDonald the Supreme Court held that the heirs of a deceased Indian had power to convey trust lands with the approval of the Secretary of the Interior under the act of May 27, 1902 (32 Stat. L., 275), and the approval of the conveyance did not require an antecedent finding by a Federal court as to heirs.

There was also an important decision by the Supreme Court of the District of Columbia in which an Osage Indian asked the court to compel payment of moneys which were part of the payment to the Osages withheld under the provisions of section 2087, Revised Statutes, which reads:

No annuities, or moneys, or goods shall be paid or distributed to Indians while they are under the influence of any description of intoxicating liquor, nor while there are good and sufficient reasons leading the officers or agents, whose duty it may be to make such payments or distribution, to believe that there is any species of intoxicating liquor within convenient reach of the Indians, nor until the chiefs and headmen of the tribe shall have pledged themselves to use all their influence and to make all proper exertions to prevent the introduction and sale of such liquor in their country.

The court dismissed the case.

SUPPRESSION OF THE LIQUOR TRAFFIC.

Recent Federal and State legislation prohibiting the sale of intoxicating liquors either at large or in war zone districts has been so progressive and effective as to substantially improve conditions throughout the entire country.

The item in the Indian appropriation act for the fiscal year 1919, providing that on and after September 1, 1918, possession by a person of intoxicating liquor in Indian country, where its introduction is or was prohibited by treaty or Federal statute, shall, in itself, constitute an offense punishable as provided in previous statutory enactments, has made possible law enforcement certain to be farreaching and exceedingly helpful in securing convictions of violators who have frequently theretofore escaped punishment.

While these new conditions have already resulted in better control of the liquor traffic and a marked decrease in the violations of the law, it is apparent that continuous and uncompromising vigilance will be necessary to insure the accomplishment of such results as, with our present legal weapons, are reasonably to be expected.

The fiscal year just closed has been a very active one. As in previous years, bootleggers have been the ever-present, persistent, and malicious enemy of the Indian. Of all men they, as a class, are the most despicable. They have no respect for God or man. There is no legitimate place for bootleggers anywhere on earth. They are without a defender.

Public sentiment was at one time considerably divided in Minnesota as to the wisdom and propriety of the Indian Office activities in connection with the enforcement of the provisions of the Chippewa treaty of 1855 prohibiting the introduction and sale of liquor into a large part of the State covered by this treaty. The change in sentiment in Minnesota, among those who for business reasons or otherwise were slow to accept this new condition, has amounted to a revolution, and it is gratifying that now there is practically unanimous support of our activities in harmony with the decision of the

Supreme Court of the United States, which on June 12, 1914, held that the Chippewa treaty of 1855 was in full force and effect.

Our operations in Minnesota, and particularly in the treaty territory, have continued unabated. While several counties have recently voted dry, and the Public Safety Commission has ordered other places to cease traffic in intoxicants, there is much aggressive work to be done.

The case wherein the John Gund Brewing Co. sought to compel the Great Northern Railway Co. to accept shipments of beer, etc., to persons residing within the treaty territory in Minnesota, referred to in my report of last year, was disposed of by the United States Supreme Court on March 18, 1918, favorably to the contention of the Government and against the contention of the Brewing Co.

A case involving the act of May 18, 1916, providing that possession by a person of intoxicating liquors in the country where introduction is prohibited by treaty or Federal statute shall be prima facie evidence of unlawful introduction, was tried in the United States court for the district of Minnesota and the law upheld. The convicted defendant appealed the case to the United States Circuit Court of Appeals on a writ of error, where the judgment of the lower court, at the December term, 1917, was sustained.

The enforcement difficulties in Minnesota were perhaps greater than in any other State than Oklahoma, although there have been continuous and varying problems everywhere, probably most acute in Wisconsin and Montana. However, Montana will go dry at the close of this calendar year and a great improvement there is confidently expected. In Oklahoma liquor conditions have been very bad and are still far from satisfactory.

The practice of loading liquors into big automobiles and driving at high speed into Indian country will probably decrease in popularity by reason of the legislation extending the provisions of section 2140 of the Revised Statutes, referred to in my last report. In a case under this section in the United States court for the eastern district of Oklahoma, it was held that the mortgagee had no rights, that the act of March 2, 1918, removed the ownership question entirely. The automobile in that case was ordered confiscated and sold. Many automobiles used in attempting to outwit the law have fallen into the hands of our liquor suppression officers and suffered a similar fate.

Seizure of conveyances does not stop with automobiles and wagons. Illegal shipments of liquor from Joplin, Mo., into the eastern district of Oklahoma are a source of vexatious trouble. Information reached our liquor-suppression officers that railroad trainmen were involved in an introduction conspiracy. On January 4, 1918, it was learned that a large quantity of liquor had been secreted in a

freight car en route for Wagoner, Okla., with knowledge of the train crew. Upon investigation the liquor was discovered in a sealed box car of crushed ore. On top of the ore were 41 sacks containing 984 quarts of whiskey. In a coal car of the same train was found a noted bootlegger who was arrested. The train engine and the car which contained the liquor were seized as conveyances under section 2140 as amended.

Early in my administration of Indian affairs I discovered the previous-to-that-time unenforced Federal statute, section 2087, which provides that no annuities or moneys or goods shall be paid or distributed to Indians while they are under the influence of any description of intoxicating liquor, nor while there are good and sufficient reasons for those whose duty it may be to make such payments or distribution, to believe that there is any species of intoxicating liquor within convenient reach of the Indians.

This law seemed to me to be a certain and speedy remedy for improving the wicked and debauched condition prevailing where Indians were receiving payments, and thereafter I proceeded to exercise the power so conferred.

At its first enforcement, now more than four years ago, it became apparent that the white citizens of the community, for business reasons or otherwise, who either participated in or condoned the traffic in liquor in violation of law, were quick to respond and give cooperation to the Indian Bureau enforcement officers when money payments were withheld from the channels of trade.

About two years since I successfully used this legal weapon by withholding the payment of more than a million dollars from the Osages, in Oklahoma, and for a considerable time thereafter sobriety among these Indians was so noticeable that the locality thereabouts was regarded as dry country.

At the beginning of the year 1918 information reached me that the bootlegger was again continuing his nefarious business with increasing activity in Osage County. Just previous to the quarterly payment ordinarily due about the first of March, I was dependably advised that the sale of liquor had increased until conditions there were worse than ever before, that many who had previously given support to the apprehension and conviction of those engaged in illicit traffic in liquor were by their inactivity or approval making possible a defiance of law not confined to the criminal violator but indirectly profited in by the venders of merchandise and the unscrupulous politician. The situation in Osage County at this time was revolting, degrading, and in every way destructive of the morals, the industry, and the very life of the Osage Indians.

For several months every other means within my reach had been exercised without satisfactory results, consequently on March 2, 1918,

I directed the superintendent at Pawhuska to withhold payments of all royalties and bonus money to Indians residing in Osage County until further advised. This order suspended the payment of \$1,660,600. Pandemonium soon reigned at Pawhuska and vicinity. A "hurry-up call" was made for a meeting, which was attended by something like 500 representative citizens and about \$6,000 was subscribed to assist in law enforcement, immediately after which an appeal was made to me to permit the payment. My answer was this telegram to Superintendent Wright:

Liquor conditions Osage Nation exceedingly bad and indefensible. Enforcement as formerly promised by local authorities has been spasmodic and temporary. I shall not be satisfied with less than demonstration of absolute good faith. This order should be enforced in such a way as to make certain that it will not be violated in the future. Liquor has been the curse of these Indians. Its results are intolerable and vicious.

A personal visit and investigation further convinced me that the suspension order was fully justified and that it should not then be revoked. Strenuous appeals were made and political influence was not overlooked, but we insisted that the payment would not be made, nor would the next one, when due, unless public sentiment was so aroused that enforcement committees and local officials would earnestly join in our efforts to drive liquor from within the reach of the Osage Indians.

As an indication of the situation the following from an article, published in the Tusla Democrat of March 31, 1918, will be of interest:

Up in the Osage a new war is being waged. Osage County really has nothing on Germany. It is fighting for its existence and not even calling upon God to take notice. But for the great world war which affects everybody, though its front is thousands of miles away, the present war in Osage County would attract Nation-wide attention. But even as things are the war which means the financial life or death of Osage County is getting the lion's share of attention just now throughout the biggest county in Oklahoma, the world war having been backed off the boards for the time.

Osage County is making war upon the bootleggers. Heretofore the county has done more or less desultory fighting against that enemy of order and decency, but that was only skirmishing. It was a matter of getting Cato Sells, Commissioner of Indian Affairs, to release suspended quarterly and other payments on assurance that the bootleggers and their business has been driven out.

Now Osage County is at war in earnest. John Barleycorn, high chief commander of the enemy's forces, is well aware of this fact. If the bootleggers are not defeated, which means driven out utterly or annihilated physically, Osage County will lose its proud position as the home of the richest nation of people on earth, the Osage Indians.

The die is cast, and the issue is joined. The fight is to the finish. That it is not going to be the finish of Osage County's prosperity is a foregone conclusion, and for that very reason it is permitted this war correspondent to predict ultimate victory for the allied forces of Osage County, including the whites and the Indians.

No bootlegger peace will be accepted. The peace must be a respectable citizens' peace. Bootlegging must be uprooted and overthrown and cast out and done for. Nothing else will suffice. The Great White Father at Washington has said it. Through the mouth of his general manager of all the Government-ward Indians in the United States, Cato Sells, Commissioner of Indian Affairs, he has said it; and he means it.

If you doubt that, ask Cato Sells if Uncle Sam doesn't mean what he says—through Mr. Sells officially—to wit:

"The bootlegger must go and bootlegging must cease before another dollar of Osage Indian money is released for expenditure in Osage County."

What that means may be explained in a few short words. It means that approximately \$6,000,000 a year, including bonuses on the sale of oil lands and the four quarterly payments of oil and gas royalties, these \$6,000,000 being almost the only visible support of Osage County, will be held out of payment until Commissioner Sells has actual and visible proof that Osage County has conquered and exterminated the bootleggers; and that is the war in its first lap up in the Osage, just above Tulsa.

Pawhuska is a beautiful little city of about 5,000 people, the county seat of Osage County. It has grown from a small Indian trading post in the past 10 years since the Osages got their allotments and waxed opulent on oil and gas royalties. It is the Osage Indian money that has made Pawhuska. * * * *

Save as to bootlegging, the people of Osage County are law-abiding. Of course reservation must be made for the offenses incident to bootlegging. The average of intelligence is high. There are good schools, both for whites and for Indians. Osage citizenry is by no means of the wild and woolly sort. It is a composite of the all-American type. Some of the Osages are highly educated. They have been to Carlisle and other Indian schools elsewhere. In the Osage school on the terrace at Pawhuska are many Indian children of both sexes. J. George Wright, superintendent of this school, is the local Indian agent. It is from his office that the checks are distributed to the Indians. Disbursing Agent Wise signs checks on the United States Treasury and they go to the 2,229 Osages each quarter, except when suspended, as at present. It is a considerable job that Mr. Wise has.

Though a town of but 5,000 people, Pawhuska had until recently 57 licensed jitneys. Citizens who wish to minimize the impression as to the prevalence of bootlegging will tell you, perhaps, that the jitneys do a big business carrying Indians to and from the Indian village and between Pawhuska and other towns in the county. Those who admit that bootlegging is jitneyized will tell you that most of the "jits" are subsidized by the wholesalers in booze, who farm the stuff out to the jitney drivers, who in their turn sell it to the Indians. The jitneys get \$1 a head for carrying Indians between Pawhuska and the village—2 miles—50 cents a mile.

And here is what an authoritative official told a representative of the Democrat, when recently at Pawhuska:

"These jitneys will bring an Indian in from the village and take him back home, charge \$2, and on the trip the driver will sell the Indian a quart of whisky, price to Indians, \$12; total \$14 for the quart, including the ride that is necessary to get the booze placed. An Indian, especially a booze-fighting Indian, never worries about the price. If he has the money, and he usually has for some time after the quarterly payment, he will give up gracefully. If he is broke, as he usually is before his next hand-out from the Government, he finds it easy to borrow money at hugely usurious rates. Anyhow, he gets the booze, gets drunk, gets into trouble, and raises hades."

It is said that booze is brought into Osage County in high-powered automobiles bought and fitted especially for the business, and that whisky caches are almost as common as gopher holes. Queer tales are told of the ingenuity displayed by the bootleggers in concealing their stocks. Near Pawhuska is an old Indian graveyard. A certain chief, gathered to his fathers many years ago, is buried in a grave of architecture superior to the common run. The grave is walled up and covered with rocks, making it a sort of vault.

One of the officers on the scent of a booze cache trailed a jitney to the graveyard. The officer secreted himself and watched the jitney man remove a flat slab of stone from one corner of the grave and take out some bottles. He pounced upon the fellow. The old chief's grave, like the tomb of the kings of Egypt, the great pyramid, was a hiding place for treasure, though in this case the treasure was booze.

In the same issue of the Tulsa Democrat—that is to say, March 31 last—appeared the following statement made by me:

I spent Wednesday at Pawhuska in conference with agency officials, enforcement officers, white citizens, and representative Osage Indians, concerning liquor conditions in Osage County.

The representations heretofore made to me in this connection are in no wise exaggerated. As a result of my interviews it is my conclusion that liquor conditions there are not only bad but without precedent. However, it is gratifying that local business men are cooperating with Federal authorities and Superintendent Wright in the effort to clean up and drive the bootlegger out of the locality.

I was also greatly pleased to find numerous Indians disposed to cooperate in the enforcement of the law for the welfare of their own people, and especially the younger men, who are more addicted to the liquor habit than the older Indians.

There is a promising outlook, but I shall not be satisfied until there is effective performance. The law must be enforced permanently, and the payments will not be made until such a condition is apparent.

During the year ending December 31, 1917, there was disbursed through the agency office to Osage Indians \$6,290,087, or an average of \$3,170 to each man, woman, and child.

For the past two years the agency office has restricted payments to about 50 Indians, who are most seriously and persistently addicted to the liquor habit, and the records show that on December 31, 1917, such Indians had an aggregate of \$58,800 in banks to their credit, in addition to which considerably over \$100,000 was expended in payments of debts previously contracted by them, erection of permanent improvements, and the purchase of implements and other necessaries. When the payments to these Indians were withheld they were largely in debt and did not have a dollar. They are now practically free from debt and are owners of property which they would not otherwise have acquired had their payments been made to them unrestricted. This money was expended for them as they desired, under supervision; consequently, they were unable to use any of it for the purchase of whisky.

The amount of the oil payment bonus suspended is \$1,660,600. The regular quarterly payment of oil and gas royalties and interest on trust funds, aggregating something over \$1,200,000, is also being withheld under this same order, or a total amount of \$2,860,600.

On April 22, I wrote the following letter to Superintendent Wright, at which time for reasons therein stated, I authorized the payment of \$1,660,600, the same being the amount first withheld, and continued the order as to the second payment in the sum of \$1,200,000:

Information before me represents that liquor conditions in Osage County have improved since the order was made withholding payments and, while they are still unsatisfactory, I think we are justified in making the bonus payment, largely because of the opportunity it will afford for the purchase of liberty loan bonds of the third issue, the time for subscribing to which will expire May 6.

I wish it understood that in coming to all conclusions in this connection I have been guided only by the earnest desire to secure the best results obtainable for all concerned.

Before making the order I was reliably informed, and a personal visit there has confirmed my opinion, that the Indians have and are suffering irreparably from the introduction and sale of liquor in Osage County; that the extent to which it has been carried on, together with other evils that follow, has brought about the permanent injury of numerous men, women, boys, and girls of the Osage tribe. To permit its continuance when a lawful remedy is available would be a serious reflection not only

upon the entire community and the Federal officers but upon every man holding a local office in any manner associated with the betterment of conditions.

The Federal authorities are sympathetic with our efforts and I have reason to believe that some of the local officers are giving earnest cooperation, but this is not true of all public officers in Osage County. It is not sufficient to say that the best citizens thereabouts want the law enforced or that they have contributed their money to an enforcement fund. More than this is required to demonstrate good faith. If an officer is doing less than his duty public sentiment should retire him.

It is folly to say that the bootlegger can not be driven out of Osage County. It can and should be done. If the Indians are to have the protection the law contemplates and which I regard as absolutely necessary for their welfare and happiness, it must be done.

Make the bonus payment now, encourage the purchase of liberty loan bonds, and await the action of the officers and the public to so change conditions there as to dependably indicate permanent relief from the degrading and destructive effects of the liquor traffic.

The efforts being made by some of the citizens and part of the officers are gratifying and promising.

Please keep me advised as to the situation following the bonus payment, to the end that while we are firm in the performance of our duties we may in no way fail to be just.

Thereafter the withholding order of the \$1,200,000 continued until I made another visit to Pawhuska, when, after a conference with Superintendent Wright, a trip to several towns of the county and interviews with numerous white citizens and representative Indians, I authorized the \$1,200,000 payment and gave out the following interview, which appeared in the Tulsa World, of May 9, 1918:

I am so much concerned in doing the very right thing in connection with the liquor situation in Osage County, with especial reference to the suspension of payments to the Indians, that I have made another trip from Washington to Pawhuska that I might personally acquire further dependable information upon which to base action.

I am just returning from Pawhuska en route back to Washington, having spent Tuesday and Wednesday with Superintendent Wright and others. While there I made close inquiry, with the result that I am convinced that the liquor situation has been greatly improved since early in March, when I suspended the first, and a short time thereafter the second, payment.

Some time ago I directed the payment of bonus money, amounting to \$1,600,000, chiefly for the reason that I did not want to interfere with the purchase of liberty loan bonds, and to-day I have authorized the quarterly payment due March 1 of \$1,200,000. There will be another payment due about the first of June. I am not yet satisfied with the liquor situation there, but it is very much better. A large part of the white people and the Indians are apparently acting in good faith in their efforts to suppress the liquor-traffic. However, the bootleggers still remain thereabouts, and I am not certain that the experience of two years ago will not be repeated. When I suspended a payment at that time there were many evidences of a sincere intention to permanently enforce the law, but it was not long until conditions were again bad, and they continued to grow worse until immediately previous to the last suspension of payments they were exceedingly bad, worse than they had ever been before.

There were "wholesale bootleggers" and "retail bootleggers." The wholesalers were defiant and apparently proud of their business. The retailers were numerous, and as low down in the scale of life as it is possible for men to become. However,

they were not less avaricious, vicious, or criminal than those engaged in the wholesaling of whisky.

While there are many high-class white men and Indians in Osage County, there is a considerable element there that has no regard for law or order. Their chief purpose in life seems to be to get the Indian's money. They are especially active immediately following each payment.

I would be less than fair if I failed to say that some of the county and city officials are earnestly sympathetic with our efforts to clean up conditions. This is especially so of Mayor Carroll, of Pawhuska, recently elected, and the county attorney's office, but it is equally true that this does not apply to all local officials, some of whom are at least indifferent, with many indications that they are in sympathy with the law-breakers.

Altogether the Osage Indians have suffered irreparably, and it will not be possible to bring about an entirely satisfactory solution of this situation until there is a much stronger sentiment than now exists for full cooperation and an earnest, united effort against those who introduce and sell liquor. It can only come about when every agency, private and public, indicates unmistakably by action as well as words that they are determined to make it impossible for the bootlegger and other violators of the law to remain in Osage County.

I have now ordered the last payment due paid, and it will be paid immediately. There will soon be another payment due, which, if conditions justify, I shall withhold.

I am not going to stop this fight until the law is vindicated by good faith enforcement. We are now reenforced in this, that the Supreme Court of the District of Columbia has, within the last 10 days, denied a writ of mandamus compelling payment holding that section 2087 of the Revised Statutes is in full force and effect, the same being the law under which the Osage payments were suspended. The pending Indian bill contains a clause, which has passed the Senate and House, making the possession of liquor in Indian country a crime, so that hereafter we will not only have the adjudicated fact that section 2087 is operative, but the additional statute which makes it easy and certain to convict every person found in Indian country with liquor in his possession. We are going to use both of these legal weapons, and there will be no compromise.

These payments have been ordered made because we believe conditions warrant our action. We are not disposed to discredit those who proclaim their intention to permanently enforce the law. If they do, the payments will be regularly made. If they do not, they will be suspended, and the fight will be kept up until there is such a condition of enforcement as is contemplated by the law.

I have but one purpose in my action in this connection, and that is to do my full duty. I have no satisfaction in the exercise of authority other than as it may be the instrument of good. I do not want to unnecessarily embarrass anyone, and shall not, but I am fixed in my determination to save the Osage Indians from the inevitable wreck awaiting them if they are not rescued from the licentious conduct of those who would push them on in idleness, debauchery, and crime, and to this end I invite the cooperation and support of every good citizen in Osage County and elsewhere in Oklahoma.

Thus ended a victory for law and order, unequaled in our five years' struggle for enforcement of statutes prohibiting the sale of liquor to Indians and in Indian country. Its results have not only been wholesome in Osage County but throughout Oklahoma and everywhere in the 26 States where Indians reside.

With the decision of Judge Stafford declaring section 2087 in full force and effect, and the enactment by the Sixty-fifth Congress making possession of liquor in Indian country a crime without further

evidence of guilt, the outlook for rapid and permanent improvement in liquor conditions is altogether gratifying, provided that when convictions are secured the penalties imposed by the court are enforced and that pardons are not granted except upon newly discovered evidence or for reasons fully justifying elemency.

It was my experience as a State's attorney, and afterwards as a Federal prosecuting attorney, and now when writing opinions requested of me as Commissioner of Indian Affairs in connection with applications to the President for pardons, that it is an exception to the rule when a defendant who has been convicted is not guilty. Conditions sometimes arise when pardons should be granted, and I believe that every case presented should be judicial-mindedly reviewed and courageously acted upon, whether it be for or against the applicant or whatever the nature of the crime. However, I am opposed to the granting of pardons on popular petition for sentimental reasons or because of political or other influence.

I do not covet, neither do I shirk, the responsibility of taking a position on applications for pardon in cases of conviction for violations of law in Indian country, and yet I would be less than frank if I failed to say that this duty has been one of the most trying I have been called upon to perform.

Notable among the many pardon applications I have reviewed and upon which I have written opinions is the case in which R. K. Warren, of Hugo, Okla., was convicted in the United States court for violation of the Federal liquor laws. In commenting upon his application for pardon and its denial by President Wilson, the American Issue of August 17, 1918, said:

Warren was arrested by an Indian Bureau suppression officer, William R. Houston, son of Gen. Sam Houston, when carrying several hundred bottles of beer in an automobile near the hour of midnight from Texas to Hugo, Okla., for use at a social gathering of young men. At the same time he was prosecuting attorney for the county in which he was delivering the beer and was then a candidate for the legislature. He was elected to the legislature and soon thereafter convicted in the Federal court, from which he appealed to the Supreme Court of the United States, where the judgment against him was affirmed.

The members of the legislature, without a dissenting vote, petitioned the President to pardon him. Then followed an array of appeals such as have never been presented in favor of any violator of the liquor laws.

Fortunately for the friends of law and order, the Commissioner of Indian Affairs, Cato Sells, is always requested to give the President his opinion as to whether or not applications for pardon for crimes committed in Indian country should be granted. Commissioner Sells courageously and vigorously opposed granting the pardon, taking the position that as prosecuting attorney, sworn to enforce the law, Warren was even more guilty than a private citizen committing the same offense and that there was no possible justification for the mitigation of his sentence. The recommendation of the Commissioner was followed by the President-instead of the multitude that came to him in behalf of Mr. Warren.

This incident is encouraging and inspiring to officers and citizens who are fighting for law enforcement. It gives a stronger confidence in the integrity and efficiency of our Government and its officers. It is in harmony with that splendid declaration of the President concerning riots and mobs.

Another case typical of many more is the application of H. C. Badger, a prominent farmer, stock raiser, and business man, who was convicted of introducing liquor into Indian country and for whose pardon numerous business men and leading citizens, including many public officials, petitioned. Concerning which case, on April 17, 1918, I wrote the following letter to the pardon attorney of the Department of Justice, which was submitted to the President:

I have your letter of March 25, inclosing the application of H. C. Badger for executive elemency, together with a number of testimonials, and, complying with your request for recommendation, submit the following:

I have given this case close personal attention and have read the entire file in which I find two undisputed facts: First, that defendant Badger did at the time charged ship from Kansas City, Mo., to Keifer, Okla., the latter place being in Indian country, 24 quarts of whisky and 2 quarts of wine, the same being conveyed in a trunk checked by him between the two points named, and that at the same time he carried with him in a grip 1 quart of whisky. Second, that he is a man of wealth and influence in the community where he resides, at or near Keifer.

There can be but one conclusion—that he is guilty of the offense charged, and seeks mitigation for his offense because of his potential relations.

To my mind the showing in his behalf emphasizes his crime. He is presumed to know the law and because of his apparent intelligence he certainly did know both the law and its consequences. To grant him immunity under the circumstances would be to announce a doctrine incompatible with every principle of just law enforcement. It would be unmistakable evidence of willingness to determine punishment upon the element of wealth and power rather than justice, which never can be justified.

Position or influence should not be a factor in the enforcement of the law against the introduction or sale of intoxicating liquors to Indians or in Indian country. It is an axiomatic and good principle that all men should stand equal before the law. In fact, the institutions of our country are in no way better reflected than when this idea is faithfully executed.

My conclusion is that to pardon Badger would strongly tend to destroy confidence in those who have immediately to do with the enforcement of the law.

Altogether, I am of the opinion that he should not be pardoned and that his sentence should be enforced.

Badger's application for pardon was denied by President Wilson.

SEMINOLES OF FLORIDA.

As a basis to the working out of a constructive plan for their betterment I detailed one of the most experienced Indian Service field men, who is himself of Indian blood, to act in the capacity of superintendent of the Seminoles of Florida, with instructions to make a close investigation of conditions there.

My attitude toward the Seminoles and other neglected tribes and remnants of tribes of Indians is indicated in the following letter addressed by me to this field representative preliminary to his activities in Florida:

Complying with our verbal understanding, you are directed to proceed to Florida for work in connection with the Seminole Indians, practically assuming the relation to them of superintendent, where you will remain until you receive orders otherwise.

I am sure you understand and appreciate my great interest in the Florida Seminoles. I feel that they have not been given the encouragement to which they are entitled, and that for this and other reasons they have not responded to the comparatively few attentions extended them by the Government.

I am persuaded that human sympathy is the first and most important element in our efforts to induce Indians to accept educational and industrial opportunities, and that this is particularly true of the Seminoles of Florida. I greatly desire them to realize our interest in their welfare, and I believe that your experience and the fact that you are an Indian will enable you to accomplish the betterments necessarily involved in their advancement. For this reason I have requested you to undertake bringing about a cooperative and constructive attitude among these people.

It is my intention to visit the several small tribes and bands of Indians in the Southern States, when I will hope to spend enough time in each locality to secure the first-hand information which will enable me to develop a helpful policy for the heretofore overlooked Seminoles of Florida, Choctaws of Mississippi, Chitimachas of Louisiana, and Alabama Indians of Texas, as I have for other neglected tribes, notably the Papago in Arizona and the Rocky Boys in Montana. I am aroused to the right-eousness of doing something for the forgotten Indian, encouraging without spoiling him.

Reports received and an interview with the acting superintendent outlining plans for extending educational and industrial aid to the Seminoles along practical lines are in part being administratively executed, and it is my purpose, with this information, to make a personal visit among these Indians in the immediate future, when a further and definite program will be put in operation.

MISSISSIPPI CHOCTAWS.

The sixty-fifth Congress appropriated \$75,000 to provide school facilities and other relief for the Choctaws in Mississippi. As a preliminary to the expenditure of this money, and that I might be fortified with first-hand information, I made a personal visit to Mississippi, where I traveled overland among these Indians, principally in Neshoba, Leake, Kemper, Newton, and Scott Counties. I saw them in their homes, at work, on their sick beds, and in their varied relationships of life.

Practically all of the Mississippi Choctaws are full-bloods. Very few own their homes. They are almost entirely farm laborers or share croppers. They are industrious, honest, and necessarily frugal. Most of them barely exist, and some suffer from want of the necessaries of life and medical aid. In many of the homes visited by me there was conspicuous evidence of pitiable poverty. I discovered families with from three to five children, of proper age, not one of whom

had spent a day of their life in school. With very few exceptions they indicated willingness to go to school, as did their parents to send them. Several young Choctaw boys and girls expressed an ardent desire for an education.

Generally speaking, the white citizens thereabouts showed a marked interest in the welfare of the Choctaws, and many of them were warmly sympathetic. However, there were a few exceptions, confined to those who selfishly profit from their labor.

While in Mississippi I visited the State Agricultural College at Starkville and the Industrial School for Girls at Columbus. They are splendid institutions. Indeed, I was surprised at the extent and the results of their work. The girls' school is the oldest and one of the best of its kind. I think it may be fairly said of the State Agricultural College of Mississippi that it ranks among the first half dozen similar schools in the United States. Its accomplishments in modern agriculture, animal industry, and kindred subjects reflect great credit upon the State and are an unmistakable demonstration of the results to be secured in the practical application of progressive farming and stock-raising methods throughout the South. The president and members of the faculty of each of these institutions assured me of their great interest in the movement to better the condition of the Choctaw Indians and volunteered active cooperation.

Starkville and Columbus are located within a radius of about 75 miles of the great body of these Indians, consequently the assistance from the Agricultural College and Industrial School is readily accessible.

With the information secured on this trip I am working out the details of an administrative plan from which I expect constructive and gratifying results.

In compliance with the congressional enactment, a special agent, who is also a physician, and who has had large experience among Indians, has been appointed. He has commenced his supervisory work, with headquarters at Philadelphia, Miss., and I am confident that with this and other comparatively small appropriations we will be able to relieve the deplorable condition now existing among these Indians.

Notwithstanding a heroic effort on the part of the Senators and Representatives from Mississippi and their other friends in Congress, it is apparent that the Oklahoma rolls have been finally closed against the Mississippi Choctaws, and that their future is in Mississippi, where, everything considered, I am persuaded that these deserving people should receive kind, prompt, and substantial consideration from the Government.

ALABAMA INDIANS IN TEXAS.

In carrying out the direction of Congress, the Secretary of the Interior detailed one of his inspectors to visit the Alabama Indians located in Polk County, Tex. This investigation has been made and the report will be presented to the next Congress.

These Indians are in the same class as the Seminoles of Florida and the Choctaws of Mississippi, and I anticipate will be found worthy of serious and friendly consideration.

The following editorial from the Springfield (Mass.) Republican may be of interest in this connection:

"THE LOST TRIBES" OF THE SOUTH RECEIVING ATTENTION OF COMMISSIONER SELLS.

The name of the Interior Department implies that it is busied with home problems, and so it is little talked about in war time. It embraces, among many other things, the Office of Indian Affairs, with Commissioner Cato Sells in charge. Little criticism has been directed at Government work for the Indians under this Commissioner. Possibly the attention of former critics is now centered upon the war, but the thorough and systematic attention given to Indian matters is the real reason. Commissioner Sells has kept himself fully acquainted with the Indians of the West, and special thought is now to be given to what may be called "The Lost Tribes" of the South. Who can remember when an Indian Commissioner visited the Seminoles of Florida, the Choctaws in Mississippi, the Choctaws and Chitimachas in Louisiana, and the Alabama Indians in Texas with a view to working out a helpful program looking to their educational and industrial advancement? This is what Commissioner Sells plans to do. It is to be suspected that the Southern Indians have received none too much attention, and some intelligent official persuasion is surely worth trying.

Altogether I am strongly disposed to extend a helping hand to the forgotten fellow—not in lavish expenditure nor in indefinite extension of paternal aid, but that he shall have an opportunity to lift himself from the condition into which he was thrust by other hands, and a power not his own. "The Lost Tribes" appeal to me as meriting a crumb from the bountiful table that for well-nigh a century has conferred its favors upon their brothers in other sections of the country.

MISSIONARIES AND HUMANITARIAN AGENCIES.

The events and experience of the year have deepened my appreciation of the earnest labors and helpful cooperation of missionaries at large and throughout the field. The period has been one of unusual affiliation in purpose and methods of work among all agencies, both individual and organized, for the spiritual and moral betterment of the Indians, and has reflected the broad fraternity of aim and effort so clearly developed by the great unity of our American cause in the relief of war-stricken nations. I am sincerely grateful for all that has been achieved through individual philanthropy and denom-

inational endeavor, and in this connection would include my sincere obligation to the Young Men's Christian Association, the Knights of Columbus, the organizations of the American Red Cross, and other organized instrumentalities working to the same great ends. I have been often assisted through these wonderful helpers of humanity, both in procuring important information about the Indian soldiers and in reaching some of them with a word of encouragement where conditions seemed to invite a personal note of sympathy and reassurance.

Your helpful cooperation in all matters affecting the Indians is appreciated, and has been a source of strength in carrying out successfully our policies regarding these people.

Very respectfully,

CATO SELLS, Commissioner.

The Secretary of the Interior.

STATISTICAL TABLES.1

TABLE 1 —Comparative statement of work and force in Office of Indian Affairs since 1899.

	Wo	ork.	Employees.		
Year	Communications received.	Increase (+) or decrease (-) over preced- ing year.	Total number em- ployed in Indian Office.	Increase (+) or decrease (-) over preced- ing year.	
1899. 1900. 1901. 1901. 1902. 1903. 1904. 1906. 1906. 1907. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917.	98, 322 106, 533 117, 556 152, 995 176, 765 194, 241 197, 637 222, 187 275, 452 280, 744 298, 340 284, 195	Per cent. + 4.84 + 7.62 + 17.60 + .22 + 9.03 + 13.55 + 10.34 + 30.14 + 15.53 + 9.83 + 1.74 + 12.37 + 23.97 + 23.97 - 13.73	101 115 119 132 131 142 149 145 160 179 189 203 227 224 237 245 280 280 280	Per cent. + 13. 86 + 8. 48 + 10. 92 75 + 8. 39 + 4. 93 - 2. 68 + 10. 34 + 11. 87 + 5. 58 + 7. 40 + 11. 82 - 1. 32 + 5. 80 + 3. 37 + 6. 12 76	
Increase in work, 1918, over 1899. Increase in force, 1918, over 1899. 1 Exclusive of Five Civilized Tribes in Oklahoma and scattere except where indicated. TABLE 2.—Indian population of the United States, or	d Indians exclusive	under Gov	ernment j	urisdiction 30, 1918.	
[Figures compiled from reports of Indian School superintendent census for localities in which no Indian Office i	-				
Five Civilized Tribes, including freedmen and inte By blood	rmarried	whites.	. 75, 519 . 2, 582 . 23, 405	101, 506	
INDIAN POPULATION BY STATES A	ND TERR	ITORIES.			
Arizona 44, 499 Illinois Arkansas 460 Indiana California 15, 725 Iowa Colorado 877 Kansas Connecticut 152 Kentuc Delaware 5 Louisia District of Columbia 68 Maine Florida 585 Marylar	kyaa.			4, 144 188 279 356 1, 414 234 780 892 55 688	

TABLE 2.—Indian population of the United States, exclusive of Alaska, June 30. 1918—Continued.

Michigan Minnesota Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey New Mexico New Mexico Nowth Carolina North Dakota Ohio	. 12, . 1, . 12, . 2, . 5, . 21, . 6,	003 253 313 079 463 854 34 168 186 342 179 940	Oklaho Oregon Rhode South (South I Tennes Texas . Utah . Vermor Virgini Washin West V Wiscon Wyomi	Island Caroline Dakota see	b			19, 175 6, 657 284 331 23, 217 216 702 3, 120 539 11, 082 36 10, 302 1, 696
States, superintendencies, and tribes.	Total popu- lation.	Male.	Famale.	Minors.	Adults.	Full blood.	One- half or more.	Less than half.
Total population s	336, 243	106, 489	105, 385	96, 486	113,612	169, 355	46, 806	72, 316
Alabama: Not under agent	\$ 909							
Arisona	44, 499	22,047	22, 452	20, 622	23, 877	44, 156	270	78
Camp Verde School—Mohave- Apache. Colorado River Agency—Mohave- Chemehuevi	435 1,184	221 659	214 525	169 446	266 738	418 1,105	17 18	61
Fort Apache School—White Moun- tain Apache Havasupai School—Havasupai Kalbab Agency—Kalbab Palute Leupp School—Navaho	2,456 171 102	1, 224 89 58 704	1,232 82 44 737	1, 218 50 45 779	1,243 121 57 662	2,348 171 102	108	
	1,441	2, 191	2,034	2,007	2, 218	1,441		
Moqui School	2, 285	1,206	1,079	1,057	1,228	2, 285	*******	
Navaho	1,940	7,985	966	1,950	1,990	1,940		
Navajo School—Navaho 45	12,080	5, 830	6, 250	7,068	5,012	11,991	88	1
Pima School 4	6, 253	3, 164	8,089	2,830	8, 423	6, 243	8	2
Maricopa (Gila River) Pima (Gila River) Gila Bend Reservation—Papago	269 3, 984 2, 000	130 2,034 1,000	139 1,960 1,000	127 1,708 1,000	142 2, 281 1, 000	269 3, 974 2, 000	8	2
Salt River School	1,277	682	595	567	710	1,275	2	
Maricopa	99 249 929	49 135 498	50 114 431	40 90 437	59 159 492	99 247 929	2	
San Carlos School	2, 623	1,372	1,251	1, 216	1,407	2, 594	20	9
Apache	2, 560 63	1,340 32	1, 220 31	1, 185 31	1, 375 82	2, 531 63	20	9
San Xavier School—Papago Truxton Canon School—Walapai	5, 237 450	2, 619 234	2, 618 226	1,200 171	4, 087 279	5, 237 441		
Western Navajo School	6, 565	3, 010	3, 555	2, 861	8, 704	6, 565		
Moqui (Hopi) Navaho Pauute	288 6,087 190	148 2,782 80	3,305 110	2,620 80	3, 467 110	288 6,087 190		

Arkansas: Not under agent..... 1 Includes 23,405 freedmen and 2,582 intermarried whites
2 Correct as reported by superintendents.
2 1910 census.
4 Includes Indians in New Mexico under this school.
5 1017 report.
6 Former report.

^{460}

Table 2.—Indian population of the United States, exclusive of Alaska, June 30, 1918—Continued.

	1010	СОП	unuou.					
States, superintendencies, and tribos.	Total popu- lation.	Male.	Female.	Minors.	Adults.	Full blood.	Mixed One-	blood.
	istion.						half or more.	than half.
California	15, 725	7,975	7,750	5, 857	9, 868	10,020	4, 175	1,580
Bishop School—Palute, Shoshoni, and Mosche	1,588	764	824	562	1,026	1, 293	187	108
Campo School	229	115	114	80	149	203	25	1
Mission Indians at Campo Cuyapaipe Laguna	139 10 4	79 4 2	60 6 2	49 1 1	90 9 3	127 10 8	12 1	
La Posta	10 66	27 27	39	25	6 41	9 54	11	·····i
Digger Agency—Digger	299	147	152	99	200	45	234	20
Fort Bidwell School	750	351	399	246	504	, 725	21	•
DiggerPalutePit River	9 209 532	5 120 226	89 306	98 153	9 116 379	3 198 524	11 8	4
Rort Yuma School—Yuma	885	449	386	320	515	800	81	4
Concow, and Ukie	698	369	394	277	416	340	171	182
Hoopa Valley School	1,485	723	762	633	852	886	551	48
Bear River	26 48 476 600	16 26 236 297	10 22 240 303	12 26 201 252	14 22 275 348	26 36 210 376	12 243 224	21
Lower Klamath	634	148 852	187 282	142 216	193	238 559	72	42
Mission Indians at Augustine	22	13	9	6	16	22		
Cabazon Martinez	31 122	17 75	14 47	7 38	24 84	31 120	·····i	
Mission Creek Morongo Palm Springs	18 250	134	116	101	149	13 177	32	41
San Manuel	49 57 90	27 28 50	22 29 40	14 87	40 43 53	49 57 90		
Pala School	1,025	528	497	358	667	902	121	
Mission Indianat Pala Capitan Gran le	205 140	97 75	108 65	72 60	133 80	161 123	42 17	2
La Jolia. Pauma.	235 56	127 26	108 30	86 20	149	234 55	i	
Pechanga Rincon	199 140	101 76	98 64	43 52	156 88	199 88	52	
Ban Pasquai	4	1	3	2	2	1	3	
Syquan	. 46	25	21	23	23	41	5	
Roseburg (Oreg.) School—scattered Wichumni, Kawis, Pet River, and others in northern California. Round Valley School—Concow	5,000	1 2, 500	1 2, 500	1 1,800	1 3, 200	1 2, 500	1 1,875	1 624
Round Valley School—Concow, Ukie, and others	1,818	922	896	748	1,075	1 655	1 684	1 475
Soboba School	926	522	404	322	604	681	230	14
Mission Indians at Soboba Cabuilla	132 130	72 69	60 61	41 34	91 96	117 123	15	
Inaja	35	18	17	12	23	18	17	
Los Coyotes	116 203	70 124	46 79	42 81	74 122	116 108	81	14
Santa Ross	62 71	124 35 37	27 34	12 24	50 47	62	68	
Volcan	177	97	80	24 76	101	134	42	
Tule River School	448	233	210	201	242	431	12	
Tule RiverAuberryBurrough	156 150 137	94 72 67	62 78 70	201	242	431	12	

Estimated.



TABLE 2.—Indian population of the United States, exclusive of Alaska, June 30, 1918—Continued.

	mata:						Mixed	blood.
States, superintendencies, and tribes.	Total popu- lation.	Male.	Female.	Minors.	Adults.	Full blood.	One- haif or more.	Less than half.
Colorado	877	451	426	440	487	861	15	
Southern Ute School—Capote and Mosche Ute	369	177	192	164	206	868	15	
Moache Ute	508	274	284	276	232	508		
Connecticut: Not under agent Delaware: Not under agent District of Columbia: Not under	152		••••••	••••••		•••••		
agentFlorida: Seminole	1 68 585 1 95	836	249	255	33 0	569	8	i
Idaho	4, 144	2,067	2,077	1,500	2,575	8, 252	517	87
Coeur d'Alene School	829	412	417	810	519	625	108	9
Coeur d'Alene Kalispel Kootenai	618 91 125	805 51 56	308 40 69	240 35 35	878 56 90	428 91 111	94	9
Fort Hall School	1,764	907	857	630	1, 184	1,487	210	6
Bannock ShoshoniSkull Valley	358 1,356 50	191 604 22	167 662 28) 608 22	1,106	1,437 50	210	6
Fort Lapwai School-Nez Perce	1,551	748	803	629	922	1,140	199	21
Illinois: Not under agent	1 188					-,		
Indiana: Not under agent—Miami and others	1 279			•••••		•••••		
Fox	356	187	169	122	284	356		
Kansas	1,414	742	672	771	643	720	836	85
Kickapoo School	637	326	811	842	295	205	199	23
Iowa	322 222 98	159 120 47	168 102 46	173 126 43	149 96 50	12 182 11	77 40 82	29
Potawatomi Agency — Prairie Band of Potawatomi	777	416	361	429	348	515	13 7.	19
Kentucky: Not under agent Louisiana: Not under agent Maine: Not under agent	1 234 1 780 1 892					••••••		
Maryland: Not under agent	1 55 1 688							
Michigan	7,514	565	532.	516	· 581	200	400	49
Mackinac Agency—L'Anse, Vieux Desert, and Ontonagon Bands of Chippewa.	1,097	565	582	516	581	200	400	40
Chippewa. Not under agent—Scattered Chippewa, Ottawa, Potawatomi, and	•		_					
Ormers	6,417							
Minnesota	12,008	5,944	6,059	6,042	5,961	3,178	4,315	3, 01 43
Fond du Lac School—Chippewa Grand Portage School—Chippewa	1,067 321	556 138	511 183	550 1 3 7	517 184	80 8	553 202	11
Leech Lake School	1,786	901	885	760	1,026	980	727	7
Cass and Winibigoshish Leech Lake	471 815	227 403	· 412	209 366	262 449	302 450	160 344	2
White Oak Point (Miss.) Chip-	i.	271	220	185	315	228	223	1 4

·1910 census.

Table 2.—Indian population of the United States, exclusive of Alaska, June 30, 1918.—Continued.

	Total				ĺ		Mixed blood.	
States, superintendencies, and tribes.	population. Male. Female. Minors. Ad	Adul-s.	Full blood.	One- half or more.	Less than half.			
Minnesota—Continued. Nett Lake School—Chippewa (Bois Fort).	614	284	830	232	832	380	172	62
Pipestone (Birch Cooley) Mdewak- anton and Wapaguita, Sioux and Sisseton, and Wahpeton	164	79	85	84	80	65	85	14
Red Lake School—Red Lake Chip- pews.	1,496	741	755	770	726	(1)	(1)	(1)
White Earth School	6, 555	3,245	3,310	8,459	8,096	1,665	2,576	2,814
White Earth (Miss.) Chippewa. Mille Lac (removal). Otter Tail Pillager. Gull Lake (Miss.). Mille Lac (nonremoval). Pembina-Pillager. Leech Lake Pillager. White Oak Point (removal). Fond du Lac (removal). Cass and Winibigoshish.	2,551 1,236 856 433 290 436 283 292 114 64	1, 268 590 490 210 138 240 134 139 66 35	1, 288 646 426 223 152 196 149 158 48 29	3,459	8,096	1,665	2,576	2,814
Mississippi: Not under agent Missouri: Nor under agent	* 1, 253 * 313							
Montana	12,079	6, 187	5,892	5, 586	6,493	6,551	8,210	2,818
Blackfeet School—Blackfeet Crow Agency—Crow Flathead School — Confederated	2,773 1,703	1,472 858	1,301 850	1,402 763	1,871 940	1,146 1,240	1,119 262	508 201
Flathead	2, 426	1,234	1, 192	1,023	1,403	645	788	998
Fort Belknap School	1,208	628	580	502	706	843	243	122
Assiniboin Grosventre	638 570	326 302	312 268	260 242	378 328	463 380	98 145	77 45
Fort Peck School	2,039	1,047	992	1,047	992	1,078	527	434
Yankton	1, 287 752	670 377	617 375	} 1,047	992	1,078	527	434
Rocky Boy's Agency—Rocky Boy Band Tongue River School—Northern	460	282	228	211	249	259	201	
Cheyenne	1,470	721	749	63 8	832	1,340	70	· 60
Nebraska	3 2, 463	1,296	1,168	1, 101	1,362	1,960	190	304
Omaha School—Omaha Winnebago School: Winnebago	1,377 1,086	716 579	661 507	706 393	669 693	1,066 894	96 103	215 89
Nevada	5,854	2,919	2,935	2,078	2,000	5, 285	419	150
Fallon School	420	215	205	124	296	899	21	
Painte at FailonLovelocks	308 112	164 51	144 61	87 87	221 75	299 100	9 12	
Fort McDermitt School—Paiute Moapa River School—Paiute Nevada School—Paiute	349 113 561	171 58 242	178 55 319	143 29 212	206 84 849	335 109 557	14 4 4	
Walker River School	904	404	400	280	524	728	76	
Painte	501 303	250 154	251 149	} 280	524	728	76	
Western Shoshone School	607	329	278	290	817	607		
RopiPafuteShoshoni.	1 264 342	157 172	1 107 170	290	817	607		

¹ Unknown.
² 1910 census.
³ This does not include 1,531 Indians on Santee Reservation now listed under Yankton . Dak

TABLE 2.—Indian population of the United States, exclusive of Alaska. June 30, 1918—Continued.

	m-4-1						Mixed	blood.
States, superintendencies, and tribes.	Total popu- lation.	Male.	Female.	Minors.	Adults.	Full blood.	One- half or more.	Less than half.
Nevada—Continued Reno, special agent 1	3,000	1,500	1,500	1,000	2,000	2, 550	800	150
Paiute Shoshoni Washo	1,400 1,000 600	700 500 300	700 500 300	1,700	8, 400	4, 500	400	200
New Hampshire: Not under agent New Jersey: Not under agent	2 34 2 168							
New Mexico	21, 186	10, 725	10, 461	10, 526	10,660	20,718	382	86
Jicarilla School—Jicarilla Apache Mescalero School—Mescalero Apache Pueblo Bonito School—Navaho	621 8 630 2, 724	335 303 1, 200	286 327 1,524	271 276 1,362	350 354 1,362	620 597 2, 724	22 22	11
Pueblo day schools	8, 896	4, 632	4, 264	3,927	4, 969	8, 462	859	75
Navaho Pueblo	625 8, 271	303 4, 329	322 3,942	281 8,646	844 4,625	625 7,887	859	75
San Juan School—Navaho Zuni School—Pueblo	6,500 1,815	3, 275 980	3, 225 885	8,900 790	2,600 1,025	6,500 1,815		
New York	6, 342	3,078	2,904	2, 472	3,510			5, 982
New York Agency	5,982	3,078	2,904	2,472	3, 510			5, 982
Cayuga Oneida. Onondaga. Seneca (Allegany). Seneca (Cattaraugus). Seneca (Tonawanda). St. Regis (not a part of Six Na-	177 271 553 953 1,321 511	83 146 298 497 669 285	94 125 260 456 652 226	64 92 182 415 472 206	118 179 371 538 849 305			177 271 553 953 1,321 511
tions) Tuscarora Montauk Poospatuck Shinnecock Not under agent	1,584 362 30 20 200 4 360	781 199 15 10 100	808 163 15 10 100	799 117 15 10 100	785 245 15 10 100			1, 584 362 30 20 200
North Carolina.	8, 179	1,198	1,145	1, 227	1,116	1,000	900	443
Cherokee School—Eastern Cherokee Not under agent	2,343 2 5,836	1, 198	1, 145	1, 227	1,116	1,000	900	443
North Dakota	8, 940	4, 471	4, 400	4, 301	4, 639	4, 212	2, 156	2, 572
Fort Berthold School	1, 204	599	605	580	624	848	317	39
Arikara Grosventre Mandan	417 513 274	200 257 142	217 256 132	199 244 187	218 269 187	259 875 214	147 124 46	11 14 14
Fort Totten School—Sisseton, Wah- peton, and Cuthead Sloux (known as Devils Lake Sloux) Standing Rock School—Sloux * Turtle Mountain School—Turtle Mountain Chippewa	983 3, 455 3, 298	509 1,705 1,658	474 1,750 1,640	482 1,424 1,815	501 2,031 1,483	565 2,640 159	270 783 786	148 22 2, 353
Ohio: Not under agent	2 127	ļ	 					ļ
9klahoma	119, 175	8, 875	8, 794	8, 683	8,986	84, 267	16,016	45, 487
Cantonment School	780	420	360	341	439	695	54	31
ArapahoCheyenne	233 547	129 291	104 256	103 238	130 309	212 483	11 43	10 21



See Roseburg, California.
 1910 census.
 Includes 182 Apaches; 1913 Fort Sill removal.
 1910 census minus 250 Montauk, Poospatauk and Shinnecock
 1917 report.

Table 2.—Indian population of the United States, exclusive of Alaska, June 30, 1918—Continued.

		002						
	Total	•				Full	Mixed	blood.
States, superintendencies, and tribes.	popu- lation.	Male.	Female.	Minors.	Adults.	blood.	One- half or more.	Less than half.
Oklahoma—Continued. Cheyenne and Arapaho School	1, 252	632	620	544	706	902	284	66
ArapahoCheyenne	515 787	262 870	253 367	} 544	708	902	284	. 66
Kiowa Agency	4, 583	2, 265	2,318	2,301	2, 282	2, 290	2,000	293
Apache	181 1,600 1,577 1,139 86	85 794 766 571 49	96 805 811 568 87	2,301	2, 282	2, 290	2,000	298
Osage School—Osage Otos School—Oto and Missouri Pawnee School—Pawnee	2, 186 524 716	1, 125 271 350	1,061 258 366	965 309 359	1, 221 215 357	802 446 558	1, 384 58 124	(¹) 20 34
Penca School	1,060	535	525	641	419	388	437	235
Kaw (Kansas) Ponca Tonkawa	365 648 47	190 321 24	175 327 23	253 366 22	112 282 25	98 250 40	32 398 7	235
Sec and Fox School	683	332	351	357	326	396	145	142
Iows	83 600	34 298	49 302	28 329	55 271	45 351	38 107	142
Seger School	747	367	380	308	439	692	55	
ArapahoCheyenne	140 607	62 305	78 302	66 242	74 365	106 586	34 21	
Seneca School	2, 100	1,039	1,061	1, 126	974	117	492	1, 491
Eastern Shawnee	158 274 337 470 468 393	70 146 165 232 245 181	88 128 172 238 223 212	81 178 192 272 178 230	77 101 145 198 290 163	3 3 79 14	62 10 27 292 27 74	93 261 231 164 441 301
Shawnee School	3,038	1,539	1,499	1,432	1,606	207	590	2, 241
Absentee Shawnee	538 2, 288 212	282 1,148 109	256 1,140 103	261 1,085 86	277 1, 203 126	8 204	585 47 8	2, 241
Five Civilized Tribes	101,506					26,774	10,393	40,934
Cherokee Nation	41,824					8,708	4,778	23, 424
By blood By intermarriage Delawares Freedmen	36,432 286 187 4,919	}				8,708	4,778	23, 424
Chickasaw Nation	10,966					1,515	966	3, 823
By blood By intermarriage Freedmen,	5,659 645 4,662	}				1,515	966	8,822
Choctaw Nation	26,828					8,414	2, 473	9,882
By blood	17,488 1,651 1,660	}				8, 444	2,478	9,882
Freedmen	6,029				<u></u>			
Creek Nation	18, 761					6,858	1,698	3,390
By blood	11,952	1		1	1	6,858	1,698	3,396

¹ Included with mixed one-half or more

2 1916 report.

TABLE 2.—Indian population of the United States, exclusive of Alaska, June 30, 1918—Continued.

	m-4-1						Mixed	blood.
States, superintendencies, and tribes.	Total popu- lation.	Male.	Pemale.	Minors.	Adults.	Full blood.	One- half or more.	Less than half.
Oklahoma—Continued. Five Civilized Tribes—Continued. Seminole Nation	3, 127					1,254	478	400
By blood Freedmen	2, 141 986					1,254	478	400
Oregon	6,657	3,227	8, 430	2,515	4,142	8,981	1,694	1,083
Klamath School—Klamath Modoc, Palute, and Pit River Roseburg School—Scattered In-	1, 100	545	615	518	642	818	265	77
dians on public domain ¹	3,000 446	1,500 233	1,500 213	1,089 198	1,920 253	1,500 225	1,125 207	875 14
tilla, and Walla Walla	1,229	574	686	439	790	596	65	566
nino, and Paiute	822	375	447	285	537	790	33	
Rhode Island: Not under agent South Carolina: Not under agent— Catawbas, Cherokee, Oneida, and	2 284			•••••				
others	2331							
South Dakota	23,217	11,720	11,488	11,064	12, 153	12,998	6,271	4,048
Cheyenne River School—Blackfeet, Miniconjou, Sans Arc, and Two Kettle Sioux Crow Creek School—Lower Yank-	2,845	1,422	1, 423	1,260	1,585	1,644	504	c07
tonia Sioux	970	466	504	407	563	710	212	48
SiouxLower Brule School—Lower Brule	293	, 156	137	114	179	226	67	
Sloux Pine Ridge School—Ogiala Sioux Rosebud School—Rosebud Sloux Sisseton School—Sisseton and Wah-	513 7,340 5,521	264 3,708 2,897	3,637 2,624	256 3,479 2,816	257 3,861 2,705	252 4,697 3,147	181 1,321 1,602	1,322 772
peton Sioux	2,280	1,175	1,106	1,080	1,200	700	1,200	390
Yankton School	3, 455	1,646	1,809	1,652	1,803	1,522	1,094	839
Yankton Sioux Santee Sioux * Ponca 4	1,924 1,193 338	905 588 153	1,019 606 186	955 483 214	969 710 124	915 513 94	640 316 138	369 364 106
Tennessee: Not under agent	² 216 702							
Alabama. Koosati, Seminole, Isleta, and	• 192							
others	: 510							
Utah	3, 120	846	858	723	961	1,586	95	23
Goshute Agency	423	209	214	162	261	410	13	•
Goshute. Codar City Indian Peake. Kanosh Kooskarum Warm Creek Washakie.	168 34 16 37 37 14 117	89 17 7 18 18 9 51	79 17 9 19 19 5	162	261	410	13	
Shivwits School—Painte	119	56	63	48	71	119		
Uintah and Ouray Agency	1,162	581	581	512	649	1,067	82	23
Titata Tita	442	212	230	1			<u> </u>	
Uncompangre Ute	439 281	215 154	294 127	513	649	1,067	82	23
Not under agent — Painte and others	- 1, 416	<u> </u>			l	l	l	

1916 report.
• Special agent's report, 1910.



¹ Estimated. ² 1910 census. ³ Formerly listed under Nebraska.

Table 2.—Indian population of the United States, exclusive of Alaska, June 30, 1918—Continued.

	191	D	MILL GOT.	•				
							Mixed	blood.
States, superintendencies, and tribes.	Total popu- lation.	Male.	Female.	Minors.	Adults.	Full blood.	One- half or more.	Less than half.
Vermont: Not under agent	1 26 1 5%9							
Washington	11, 082	5, 495	5, 587	4,797	6, 285	6, 952	2, 518	1,617
Colville School—Confederated Colville	2, 566	1, 273	1, 293	1, 160	1,406	1, 453	469	644
Cushman School	2, 148	1,091	1,052	982	1, 161	1,848	571	220
Chehalis	116 174 82 204 87	69 75 45 99 48	47 99 87 105 39	46 73 22 102 39	70 101 60 102 48	87 136 51 132 37	6 87 21 72 85	22 1 10
Unattached	1, 490	755	725	700	780	900	400	180
Cowlits	1 490 534 1 182 304	240 288 75 152	250 246 77 152	*700	² 780	² 900	² 400	* 180
Neah Bay School	682	851	831	283	399	640	43	
Hoh	46 411 15 210	25 210 6 110	21 201 9 100	15 182 `1 85	. 81 229 14 126	46 371 15 208	40	
Spokane School—Spokan Taholah School	604 734	268 357	836 377	263 302	851 432	319 310	73 225	212 196
Queets River Reservation	48	20	28	15	28	46	2	
QuileuteQuinaielt	15 33	16	11 17	2 13	13 20	18 83	2	
Quinsicit Reservation — Quin- aicit	686	387	849	287	409	264	223	190
Tulalip School	1, 353	674	679	632	721	887	433	80
Lummi Port Madison—Susquamish Swinomish Tulalip (remnants of many tribes and bands)	518 204 221	250 104 109	263 100 112	252 108 97	261 101 124	299 84 196	200 105 24	14
and bands)Yakima School—Confederated Ya-	415	211	204	180	235	308	104	
kima	8,000	1,481	1,519	1, 185	1, 815	2,000	700	300
West Virginia: Not under agent	1 36							•••••
Wisconsin	10, 302	5, 257	5,045	4, 461	5,841	5, 465	2,697	2, 140
tomi and Winnebago Hayward School—Chippewa	² 1, 372 ² 1, 276	679 639	693 647	545 498	827 778	1, 358 216	9 866	194
Keshena School	2, 364	1, 259	1, 105	1,096	1, 278	420	897	1,047
Menominee Stockbridge and Munsee 4 Lac du Flambeau School—Chip-	1, 756 606	944 835	814 201	812 274	946 382	420	897	441 2 600
Laona Agency—Petawatomi La Pointe School—Chippewa at	744 855	349 196	395 159	277 165	467 190	456 355	167	121
Bad River Oneida School—Oneida Red Cliff School—Chippewa	1, 054 2, 610 827	1,340 277	526 1, 270 250	1, 220 236	620 1,890 201	2, 610 2	854 404	652
Wyoming	1, 696	873	823	758	938	1, 218	225	253
Shoshone Agency	1,696	873	823	758	938	1,218	225	253
Arspaho	853 843	438 435	415 408	391 367	462 476	734	108	11 24

¹ 1910 census.

² Estimated.

^{* 1917} report.

⁴ Now citisens.

TABLE 3.—Indians under Federal supervision—unallotted and holding trust and fee patents, June 30, 1918.

			Allo	tted.		
States and superintendencies.	Total Indians under Federal super-	Total al-	Holding trust or restricted	Indians recei	who have	Unal- lotted.
	vision.	lotted.	fee patents.	Part of allot ment.	Entire al- lot ment.	
Total, 1918	309, 755 309, 409 312, 654 309, 911 307, 891 300, 784 300, 980 295, 330 247, 522 230, 437	178, 094 179, 374 184, 865 182, 289 180, 005 170, 444 177, 626 164, 215 64, 883 15, 166	64, 098 67, 972 72, 508 68, 980 69, 944 65, 768 70, 478 88, 182	3, 593 3, 495 3, 492 2, 623 1, 643 1, 420 1, 926	110, 403 107, 907 106, 885 110, 686 109, 018 103, 973 103, 543 1 76, 033	131, 661 130, 035 126, 547 126, 379 124, 797 121, 282 120, 780
Arisona	44, 409	5, 277	5, 277			39, 222
Camp Verde Colorado River Fort Apache Havasupai Kalbab Leupp	435 1, 184 2, 456 171 102 1, 441	1,184	1,184			435 2,456 171 102 1,441
Moqui Navajo ² Pima ² Balt River San Carlos	4, 225 12, 080 6, 263 1, 277 2, 623	3, 243 759	8, 243 759			4, 225 12, 080 8, 010 518 2, 623
San Xavier. Truxton Canon. Western Navajo	5, 237 450 6, 565	. 91	91			5,146 450 6,565
California	10,725	8, 122	3,097	1	24	7,608
Bishop. Campo Digger Fort Bidwell Fort Yuma Greenville Hoopa Valley Malki Pala Round Valley Soboba	1, 588 229 299 750 835 693 1, 485 634 1, 025 1, 818	285 22 212 697 206 1,009	231 22 212 697 206 989 186 491	1	20	1, 353 229 277 538 138 487 476 634 839 1, 326
Tule River.	443	63	63			880
Colorado	877	146			146	731
Southern Ute	369 508	146			146	223 508
Florida: Seminole	585					585
Idaho	4,144	2, 829	2, 543	87	249	,1, 3 15
Coeur d'Alene Fort Hail Fort Lepwai	829 1,764 1,551	488 1,544 797	384 1,499 660	87	104 45 100	341 220 754
Iowa: Sac and Fox	356					356
Kansas	1,414	7 3 0	. 453	92	185	684
KickapooPotawatomi	637 777	269 461	166 267	18 79	90 95	368 316
Michigan: Mackinac	1,007	78	73	l		1,024

¹ Includes fee patents for part of their allotment.

^{* 1917} report.

TABLE 3.—Indians under Federal supervision—unallotted and holding trust and fee patents, June 30, 1918—Continued.

	Total In-		Allo	tted.		
States and superintendencies.	dians under Federal	Total al-	Holding trust or		who have	Unal- letted
	super- vision.	lotted.	restricted fee patents.	Part of allot ment.	Entire al- lotment.	
Winnesota	12,003	4,971	4,056	506	400	7,001
Fond du Lac Grand Portage 1. Leech Lake Nett Lake Pipestone (Birch Cooley) Red Lake.	1,067 321 1,786 614 164 1,496	284 164 969 282 43	245 146 802 223 43	4	30 18 153 59	783 157 827 833 127 1, 494
White Earth	6, 555	8, 239	2,597	493	149	8,810
Montana	12,079	7, 281	6, 231	207	843	4, 79
Blackfeet	2,773 1,703 2,426 1,208	2, 236 1, 197 1, 809	2,130 1,100 1,326	2 10	106 95 473	537 506 617 1, 208
Fort Peck	2,039 460 1,470	2,039	1,675	195	100	460 1, 470
Nebraska.	2, 463	849	364	59	426	1,61
Omaha Winnebago	1,377 1,086	556 293	231 133	41 18	284 142	821 794
Nevada	5, 854	1,397	1, 391		6	4, 45
Fallon. Fort McDermitt.	420 349	284 86	284 86			136 261
For McDermitt Mospe River. Nevada. Walker River Western Bhoshone Reno, special agent *	113 561 804 607 3,000	113 304 610	113 304 604		6	561 501 607 2,390
New Mexico	21, 186	473	473			20, 71
Jicarilla. Mescalero. Pueblo Bonito. Pueblo day schools. Ban Juan. Zuni	621 630 2,724 8,896 6,500 1,815	473	473			144 636 2, 73- 8, 896 6, 500 1, 814
New York: New York Agency	5,982					8,98
North Carolina: Cherokee	2,343	ļ				2,84
North Dakota	8,940	7,089	5,923	292	854	1,87
Fort Berthold	1, 204 983 8, 455 8, 298	926 413 8, 267 2, 478	832 281 3, 100 1, 710	40 81 92 70	45 51 65 696	277 57 19 82
Oklahoma	116, 494	110, 283	6, 213	946	103, 124	6, 21
Cantonment Cheyenne and Arapaho Five Civilised Tribes. Kiewa Osege Otoe Pawnee Ponce. Page See and Fox	780 1, 262 101, 506 4, 583 2, 186 524 716 1, 060 683 747	368 627 101,506 3,028 1,812 200 201 627 238	303 431 (4) 2,873 1,855 132 196 329 98	10 457 120 6 230 16	59 175 4 101,506 140 48 89 68 124	1,50 3,7 22 42 44 88 90
Seneca Smarries	747 1,707 750	366 771 360	306 190	15	771	38 99 30

¹1917 report.

² This does not include 1,193 Indians on Santes reservation now listed under Yankton, S. Dak.

¹See Roseburg, Oreg. ²29,719 restricted Indians as to alienation. ³Does not include citizen Potawatomi.

TABLE 3.—Indians under Federal supervision—unallotted and holding trust and fee patents, June 30, 1918—Continued.

			Allo	tted.		
States and superintendencies.	Total Indians under Federal super-	Total al-	Holding trust or restricted	recei	who have	Unal- lotted.
*	vision.	lotted.	fee patents.	Part of allotment.	Entire al- lotment.	
Oregon	11,657	8,873	3, 489	19	365	7,784
Klamath ¹	1,160 8,000 446 1,229	783 2,000 210 449	759 1,977 114 212	17 2	24 28 79 285	877 6,000 236 780
Warm Springs	822	431	427	ļ	4	391
South Dakota	22,879	17,745	14,388	1,299	2,058	5, 134
Cheyenne River Crow Creek Flandreau	2, 845 970 293	2,714 970	2, 422 888	81 2	211 80	131 293
Lower BrulePine Ridge	513 7,340 5,521	6,276 5,521	5,272 4,914	10 599 102	58 405 505	40 1,064
Sisseton Yankton	2, 280 3, 117	683 1,108	161 324	295 210	227 574	1,597 2,009
Utah	1,704	620	615	1	4	1,084
GoshuteShivwits	423 119 1,162	620	615	1	4	423 119 542
Washington	11,062	6, 966	6, 381	80	505	4, 116
Colville Cushman Neah Bay Spokane Taholah Tulalip	2, 566 2, 143 682 604 734 1, 353	2, 486 168 276 489 486 176	2,304 159 276 397 447 162	2 4 4	180 5 88 39 13	80 1,975 406 115 248 1,177
Yakima	3,000 9,698	2,885 3,064	2,636 1,877	60 49	180 1,138	6,632
Grand Rapids Hayward Keshena Lec du Flambeau Leona La Pointe Oneida	1,372 1,276 1,758 1,758 744 355 1,054 2,610	354 1,054 1,021	423 329 981 109	4	86 25 119 867	1,372 767 1,758 390 355
Red Cliff	527 1,696	126	85 1,254	Б	41 67	7 401 870

1917 report.
 Includes 5,000 Indians in California; now under Greenville, Siletz, and Warm Springs,
 Includes 1,193 Indians, Santee Reservation, formerly under Nebraska.
 Does not include Stockbridge and Munsee citizen Indians.

Table 4.—Marriages, missionaries, churches, English language, dress, citizenship, crimes, misdemeanors, etc., June 30, 1918.

	Ar- voters.	25, 526 25, 526 26, 220 27, 118	B	3
	Are oitizens of the United States.	70,607 73,961 74,092 80,241 74,261 78,543	Z	20.
Indians who	Wear oftsens.	192,238 1191,207 1191,207 1191,201 1182,496 1191,585 1149,621 1188,410 118,196	86,915	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
Ind	estirw bas beed segarated fastignal	25, 205 27, 27, 205 205, 273 205, 203 205, 205 205, 205 205 205, 205 205 205 205 205 205 205 205 205 205	5,614	252 1 178 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Speak Engitch lan- guage.	1116, 909 1113, 406 1113, 404 1113, 928 110, 208 90, 431	7,236	255 255 255 255 255 255 255 255 255 255
Church-going Indians.	Catholle	67, 808 67, 466 56, 466 51, 638 48, 925 46, 251 39, 632	9,546	3, 168 0, 760 2, 760 1, 800
Chure	Protestant.	48, 846 42,078 40,610 87, 430 36, 136 39, 136 29, 897	4, 595	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
diane.	Churches among In	504 617 625 513 513 513 513 513 513 513 513 513 51	28	2 8 8 9 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Missions- ries work- ing among Indians.	Catholic	######################################	8	part o
Miss ries ing a Ind	Protestant.	250 250 250 250 250 250 250 250 250 250	8	4000000000
Arrests for drunken- ness.	Whites	250 1119 1119 1235 1535 1535		
dru	andbal	929 1,065 1,276 1,489 1,816 2,067	123	20 1 10 1 10 1 10 10 10 10 10 10 10 10 10
Misde- meanors.	By whites.	252 252 252 253 273 274	1	5 (9) (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D PE	By Indiana.	22.1.156 1.00-1.156 22.2.22 1.00-1.156 1.00-	239	1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Crimes.	By whites.	882582		
£	By Indians.	284 285 283 312 305 292 292	8	8 1-9 0 ESS 10 10-1 ES
lating June	Plural marriages 6 v 1918	220 246 221 201 201 201 201 201 201 201 201	307	_ & & % &
	ganer. ganer.	44444444 88888 8888 8888 884 874 874 874	223	4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
. 25	By tribal custom.	378 387 474 476 516 779 906 450	101	1138 114 115 115 115 115 115 115 115 115 115
Marriages	Between Indiana.	1, 607 1, 717 1, 717 2, 1800 1, 151	372	# 5005000000000000000000000000000000000
	Between Indiana and whites.	250 250 176 111 200 172	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	States and superfu- bendencies.	Total 1918 1916 1916 1916 1911 1913 1913 1910 1900	Arisona	Camp Verde. Colorado River Fort Apache. Havesupal Kalbeb Leupb Mequil Navajo a Phoenix Pinan si ara

Table 4.— Mariages, missionaries, churches, English language, dress, citisenship, crimes, misdemeanors, etc., June 30, 1918—Continued.

		Marriagos.	į		and galish	Crimes		Miede- meanors.		Arrests for drunken- ness.		Missions- ries work- ing among Indians.		Church-going Indians.	ens.		Ą	Indians who	Ţ		
States and superm- tendencies.	Between Indians. and whites.	Between Indians.	By tribal custom.	By legal proced- ure.	Plural marriages ex. 30, 1918.	By Indians.	By whites.	By Indians. By whites.	. sandibale.	Whites.	Protestant.	Catholic.	Churches among In	Protestant.	Catholic.	Speak English lan- sasse.	Rosd and write English language.	Wear oftzens' clothing.	Are oftizens of the United States.	Are voters.	
California	•	8	6	12	8	8	-	2	62	12	8	22	2	1,535	3, 228	9,186	4, 592	11,608	5,373	1,142	
Bishop Campo Digger Port Blawell Fort Yuma Greenville Hoops Valley Malfy Roll Roll Roll Roll Roll Roll Roll Rol		844E88r24 00	200 Day	**************************************	64	n	- : : : : : : : : : : : : : : : : : : :	- 21 co co	G1	60 60 6161 61		- : : : : : : : : : : : : : : : : : : :	80 480BBB	(c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	(1) 300 1,027 247 884 1,027	1,000 288 289 755 755 1,000 1,775 884 884 888	© \$22552\$\$\$\$\$ \$933	1,588 229 229 229 1,285 1,981 1,024 1,818 1,818 1,818 1,818 1,818 1,818 1,818 1,818 1,818	1,000 289 780 1,818 1,818	04 14 86 4 01 18 00 00	
Colorado	_	64	i	~	Ť		-		-	*	-		**	28	201	88	35	8	98		
Southern Ute. Ute Mountain. Florida: Seminole	8 -	3	8 ×	\$	-	2	oo	•		m g		8 1 8	8 1 7	35 1 1,080	1,171	250 2,133	888 8	369 60 4,143	360	1,0%	
Coeur d'Alene Fort Hall Fort Lapwal	-40	e¥8 5		-5 <u>8</u> 2	117	w co co co		φ ₁₁		58	<u> </u>	907 -	800	404 676	8 7 E	\$ 53. 8 50 8	8538	1,764	<u> </u>	112 54 52	

Kanana	:	11		11			-	-	1	~	•	-	=	•	180	¥	1,984	616	1,414	1,218	2
Klekspoo. Potawatomi		.000	11	960				1		~	64	87		***	328	280	83	25	B ET	75.5	33
Mobigan: Mackinso		Ť	ŧ							:	İ	i	-	•	\$	8	8	8	1,007	1,007	星
Minnesots	•	23	61	23		1		8		S	•	22	2	22	1,530	3,082	7,501	4,710	11,999	9,988	2, 867
Fon dn Lac Grand Portage t Leeth Lake Nott Lake Phestone (Birch Cooley) Red Lake White Earth	re	35-u44	2 ©	35118800	ε	3	Θ	8	ε	9 7 6	* 				38585 5	8323 68	8188188	8883888	1,067 821 1,786 1,786 1,466 6,666	1,067 1,786 820 164 164	88336
Montana	8	114	81	35	-	8	•	88	16	150	12	11	2	88	1,461	6,790	6,258	4,340	10,801	8	808
Blackfeet Crow Frathend Frathend Fort Belimap Fort Peek Rocky Rocky Boy's Agency	45.80 I	^{38⁵26~3 m H}	3 19	8 ⁵ %°% -	3, 2, 2	8-744	800	525 ** 2	15 (F)	8°2481E	(3)	10 mm mm	88888 H	100 00 10	252 252 253 250 110 250	60003353	1,860 1,860 1,860 1,851 1,860	1,800 1,200 250 250 160	4-14-14 501-14-14 100-14-14-14-14-14-14-14-14-14-14-14-14-14-	180 97 573 185	79 SE SE
Nebraelta.	~	g	~	g	€0	-	:	1		2	=	17	~	-	88	ដ	1,680	1,500	1,886	2, 463	Ş
Omaha	64	22 ;	6 9	22 8	•	-		1 8	•	1108	101	16	7	~*** f	28	a	888	865 S	1,086	1,877	25.
Nevada		8	2	3	•	•		13	10	3	•	3		1	3		, 200	1,5	, 884 1	Ę	₹
Fallon Fort McDermitt Mospa River Nowaka. Newaka. Walker River Western Shosbone. Reno, special	: 	4282	e : :	* 402F	3""	~ ~€	ε	3 - 12	€ €	2 8 E	~ ເ		ε		53 8828	ε	18 028848	855451858	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	349 113 800	9
New Mexico	•	911	28	2	1	2	2	31	8	11	7	=	ជ	2	ğ	8,541	6,001	4, 645	13, 190	6, 330	
Jicerilis Mercalero Pueblo Bonito Pueblo day schools San Juan	" €"	~46 <u>2</u> a8	. E.E.	40 Can	EEE	* 5°"	€	~°623	€	44E44	° €	-deser	- 2 -		85,25	340	# #####	838888	1,8,4, 4,5,5,8,9,8	4 8, 526	
1 Not reported.			1011 1917	report			.	Under	State J	uriedic	Ç.			Part de la company de la compa	nated.	schuded,	now un	er Yank	now under Yankton, B. Dak	뇀	

TABLE 4.—Marriag	3	nierio	narie	i, chu	roles,	Engl	ish la	ndrag	e, de	, G.	hisena	ip, a	imes,	mied	meano	missionaries, churches, English language, dress, citisenship, crimes, misdemeanors, etc.,	June 30,	30, 191	1918—Continued.	inued.	
		Marriagos	3		eant zaitsi	Crimes	100.	M'sde- meanors	de Scott	Arrests for drunken- ness.	its for ken-	Missiona- ries work- ing among Indians.	one- ork- nong	anal b	Church-going Indians.	going line.		Ind	Indians who—	ī	
Etates and superin- tendencies.	Between Indians. and whites.	Between Indians.	By tribal custom.	By legal proced- ure.	Plural marriages ex 30, 1918.	By Indians.	By whites.	By Indians.	By whitee.	.enelbal	Whites.	Protestant.	Catholic	Churches among In	Protestant,	Catholic	Speak English lan- guage.	Road and write Engilsh language.	Wear citsens, clothing.	Are citizens of the United States.	Are voters.
New York: New York Agency												*	-	15	2,912	1 448	5,982	5,982	5,982	172	22
North Carolina: Cherokee		22		2				Ì	Ť			-	•	=	1,400		1,896	1,280	2,343	2,343	1 579
North Dakota	**	22	2	8	•	•	:	8	•	23	i	==	2	*	1,640	5,716	2,000	2,850	8,940	6, 405	2,263
Fort Berthold Fort Totten Standing Rock? Turtle Mountain	84	Zoo Z	9	3 -8	80	2 2		~g~		400		-000m	40 4 0	00000	318 300 875 875 875	3,408 3,139 139 139	8888 8888	3558, 3588,	1, 204, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	1, 204 288 34, 65 265	84.25 154.25 154.25
Oklahoma	8	110	16	3	=	2	8	Z	82	8	187	\$	•	23	3,115	1,750	12,860	9,845	15, 779	17,243	3,784
Cantonment Chorente Chorente and Arapubo. K.fowa. K.fowa. Otage. Pawnee Pawnee Bee and Foor Begger Benger Benger Benger Benger	(4 to 80 to	381204+0015		588¥44∞05€8	: : : €	31 1 -1€	92	£ €	Ç. 🕱 €	-823-3E -S	E .	######################################	aa	manu	######################################	1, 250 1, 250 1, 250	2,1 2,2 2,2 2,2 2,2 2,2 2,2 2,2 2,2 2,2	242 14 262 24 14 263 24 14 263 26 14 263 263 14 263 163 163 163 163 263 163 163 163 163 263 163 163 163 163 263 163 163 163 163 263 br>263 163 263 163	1, 283 1, 283 1, 283 1, 283 1, 243 1, 243 1, 747 1, 747 1, 103 1,	2, 2, 28 2, 2, 28 2, 28 2, 28 2, 28 3, 28 3, 28 3, 28 3, 28 3, 28	200 200 200 200 200 200 200 200 200 200
Oregon.	Ħ	30	6	28	:	=	-	19	:	77	+	•	~	•	1,088	52	8,675	3,631	10,998	4,863	4,283
Klamath * Roseburg * Bildet. Unatilla Wern Springs	3. E	©₹ \$ \$	⊙ 2	25483	Θ	°€	- €	25-ma	© .	∞ € •	€ - ∞	454	€	u Suu u	85388	€75 875 875	1, 130 6,000 870 675 675	2000 3 2000 3	1, 8, 1, 180 2, 2, 2, 2, 2, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	3,000,8 446 680 848	

Pennselvania: Carifele			_		_	-	-		-	-	-	-	-	- :	- 85	208	286	82	280		
South Dakots	=	188	*	202	~	8	11	180	•	•	8	117	28 17	170 14,	312 8,	8	13,886	9,010	23,017	6, 334	4,060
Cheyenne River Grow Creek Flandreau Lower Brule	C4	08 æ æ		2000	64	-	-	800				4000		080ar	277 288 288 288	81. 81. 82. 82. 82. 83. 83. 83. 83. 83. 83. 83. 83. 83. 83	2,28,25,25,25,25,25,25,25,25,25,25,25,25,25,	2. 2. 2. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	4, 26,833	22223	2228
Piere Fore Ridge Rosebud Bisseton Yankton e		3822	•	1482		2557	œ eq	£8-8		•	e4	-4222	- 50	:8448 ww,f.	28228 282288 202	25825 25825	6,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	%,1,1,1, %,6,2,8,4 %,6,2,8,4	6.00 4.0. 2.00 8.0. 2.00 8.0. 2.00 8.0. 3.00 8.0.	1,308 3,117	1,388 7,388 7,588
Utah	-	23	8	•		7	•		•			6	•	4	: 88		8	250	1,143	1,201	\$
Goshute. Shivwits. Uintah and Ouray	-	2	-8	400		7				m		0-10			38 3		2325	323	218	1, 162	1 350
Washington	13	83	:	88	:	13	-	8	ន	3	:	6	0.	38	730	E	9,086	6, 594	11,130	7, 918	9 2
Colville. Cushman. Neah Bay Spokane. Taholah Tuship.	44664	ಷ್ಕಾರಪ್ಪಟ್ಟ <u>ಳ</u>		7-2-428		=	-	o o 48	8	04 m 4 m 00			864 SH	254448 0	52585528 52585528 1:	88.83 88.83 88.83 88.83	1, 700 828, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	2,1,050 1,1,050 2,017 2,020 2,030 2,	621.8 8 821.8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1,985 2,000,8 3,000,8	8 \$35245
Wisconsin	22	88	90	28	•		i	110	25	E	91	8	<u></u>	<u>к</u>	128	5	7, 132	6, 430	9,00	4,336	1,616
Grand Rapids ! Hayward Kethena Lac du Flambeau La Pointe	. 6	\$ 24.00	25 33	8 62 - 181		60		- 8 8		2 2 2 3	1 2	n	13 13	id rod to	58 288 1 :	<u> </u>	00,1 00,800 01,800 01,800	558358	272,1, 372,1, 347, 350,1	1, 242 1, 276 1, 276 188 188 188 188	8382 8
Oneida. Red Cliff.	-	34		20			 	60	Ħ	7	<u> </u>	~ :	80 CM	~2 W eq. :	를 :	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2, 827 827	1, 88 89	2, 657	83	_E Z
Wyoming: Shoshone	-	81	. 61		:		•	•	:		_	=	<u> </u>	17	2962	475	1,080	88	1,666	2	22
'Estimated. : 1917	report		· Unknown	lown.	•	Not reported	ported.		Inclu	des San	tee, for	merly	listed u	nder h	Includes Santee, formerly listed under Nebraska.		Does I	not inclu	Does not include Ponce, Indian	Indiana	١.

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TABLE 5.—Area of Indian lands June 30, 1918.

	Number		Area in acres	
States and reservations.	allotments.	Allotted.	Unallotted.	Total.
Grand total	224, 133	36, 860, 634	84, 233, 174	71,003,8
Total reservations	216, 400 7, 724	35,751,792 1,108,842	34, 233, 174	69,984,9 1,106,8
rizona	1,758	81,639	18, 571, 375	18,653,0
Camp McDowell (Salt River)			24,971	24,9
		8 020		240,6
Cocopah. Colorado River. Fort Apache. Fort Mojave (Colorado River). Glia Bend (Pima). Glia River (Pima). Havasupai (Suppai). Hualapai (Truxton Canon). Kaibab. Moqui (Hopi). Navajo (see New Mexico and Utah). Papago. Papago (San Xavier).		0,020	1,681,920	1,681,
Fort Mojave (Colorado River)			81,329	81,8
Gila Bend (Pima)			10, 231 371, 422	10, 2
Havasupai (Suppai)			518	371,
Hualapai (Truxton Canon)			730, 940	730,
Kaibab	• • • • • • • • • • • • • • • • • • • •		138, 240 2, 472, 320 8, 774, 397	188,2
Novelo (see New Mexico and Utah)	•0	0 600	8 774 307	2, 472, 8 8, 783, 9
Papago			2,120,114	2, 129, 1
Papago (San Xavier)	291		114,348	155,9
Salt River	804	24,404	22,316	46,7
San Carlos			1,884,240	1,884,2
alifornia	2, 598	82, 172	434,866	517,0
Digger			530	!
Hoopa Valley	639	29,001	99,051	12 8, 1
Mission— Agus Callente (Malki)			7,205	7,2
Agua Caliente (Malki) Augustine (Malki)			616	
Cabason (Malki)			1,280	1,2
Cahuilla (Soboba)			18,880	18,8
Canitan Grande (Pala)			1,640 15,080	1, (15, (
Cuvapipa (Campo).			4,060	4,0
Inaja (Soboba)			760	7
Laguna (Campo)	ļ		320	
La rosta (Campo)			3,679 21,520	3,6 21,8
Manzanita (Campo)			19,680	10 6
Martinez (Malki)			1,280	1.2
Mesa Grande (Soboba)			4,400 1,920	6.4
Morongo (Malki)			11,069	1,9 11,0
Pala	177	1.396	3,084	4.4
Pechanga or Temecula (Pala)	85	1,299	3,896	5, 1
Potrero or La Jolia (Paia)			8,329 560	8,1
Rincon (Pala)			2,554	2,
San Manuel (Malki)			653	
San Pasqual (Pala)			2,200	2,
Santa Yner (Schobe)			2,560 120	2 , (
Agua Caliente (Malki) Augustine (Malki) Cabason (Malki) Cahuilla (Soboba) Campo Capitan Grande (Pala) Cuyapipa (Campo) Inaja (Soboba) Laguna (Campo) La Posta (Campo) Los Coyotes (Soboba) Manzanita (Campo) Martines (Malki) Mesa Grande (Soboba) Mission Creek (Malki) Morongo (Malki) Pala Pethanga or Temecula (Pala) Potrero or La Jolla (Pala) Ramona (Soboba) Rincon (Pala) San Manuel (Malki) San Pasqual (Pala) San Manuel (Malki) San Yasuel (Pala) Santa Yose (Soboba) Santa Yose (Malki) Tuolumne Twenty-nine Palms (Malki) Paiute Round Valley			15,042	15,0
Soboba			5, 461	5,4
Syquan (Pala)	17	270	370	
Tuolumna			20,800	20,8
Twenty-nine Palms (Malki)	[480	4
Paiute			75,806	75,
Tule River.	877	42,106	48,551	42, 1 48, 8
Yuma (Fort Yuma).	798	8,010	31,376	39,
plorado	872	l '	396, 143	468,8
Ute (Ute Mountain and Southern Ute)	871	72,651	396, 143	468,
Absentee Wyandot	i	80		,
orida: Seminole		 	23, 542	28,
laho	4,377	628,098	54,841	682,9
Coeur d'Alene	638	104,077		104.6
Fort Hall Lapwai (Nez Perce)	1,863 1,876	104,077 345,209 178,812	21, 263 83, 578	104,6 366,4 212,3
Lapwai (Nez Perce)	1,876	178,812	83,578	212,3
wa: Sac and Fox	I	l	3,251	8,

TABLE 5 .- Area of Indian lands June 30, 1918-Continued.

States and recommendance	Number		Area in acres	•
States and reservations.	allotments.	Allotted.	Unallotted.	Total.
ansas	3,079	272, 519		272,
Chippewa and Munsee (Potawatomi)	100 143 351	4, 195 11, 769 27, 691 220, 785 8, 079		4,1 11,7 27,6
Kickapoo	351	27,691		27,6
Potawatomi	2,363 122	220,786 8,079		220, 7 8, 0
Gehigan	2,648	153,227	191	153,4
Isabella	1,943	98,395 52,201	191	98, 8 52, 2
L'Anse Ontonagon	669	52,201 2,631		52, 2 2, 6
innesota.	8,365	954,615	553,899	1,508,8
			305,081	
Bois Fort (Nett Lake)	14	56, 782 296		56,
Fond du Lac	. 396	36,846		26,
Grand Portage	304 631	24, 191 48, 520 12, 582		21, 48, 12, 543,
Leech Lake	135	12,582		12
			543, 528	543
Vermillion Lake			1,080 9,290	_1,0
White Earth. White Oak Point and Chippewa (Leech Lake)	5, 157 826	740, 665 64, 783	9,290	719, 64,
ontana	10,001	2, 448, 126	3, 479, 270	5,927,
Blackfeet	2,656	889, 199	604, 188	1, 493,
Crow	2,451	481, 269	1,831,944 497,600	2, 313, 1 497, (849, 1 228, 4
Fort Belknap Fort Peck	2,466	849, 250	497,000	840
Jocko (Flathead)	2,428	228, 408		228
Jocko (Flathead) Northern Cheyenne (Tongue River) Rocky Boy	ļ		489, 500 56, 038	200,0
Rocky Boy	· · · · · · · · · · · · · · · · · · ·	·····	56,038	56,
ebraaka	4,037	353, 424	6, 118	359,
Omaha	1,460	130, 642 27, 236 73, 251	4,880	185,0 27,2 78,2
Rentes (Nichrers)	168 850	79 961		72,
Sioux (additional)		1	640	,
Ponca (Bantee) Santee (Niobrara) Sloux (additional) Winnebago	1,559	1 122, 295	1,098	1 128,
evada	979	14, 188	721,477	785,
Duck Valley (Western Shoshone)			821,920	321,
Moapa River	117	605	i 522 í	1.1
Paiute (Fallon)	306	3,650	822,000	4, (822, (
Walker River	496	9,878	75, 204	85,
Moapa River. Paiute (Fallon). Pyramid Lake (Nevada). Walker River. Winnemucos.			840	٠,
ew Mexico	2,800	673, 175	4,034,049	4,697,
Jicarilla Apache	796	858, 812	407, 300	761,
Mescalero Apache	2,004	819, 363	407, 300 474, 240 1, 980, 687	761, 474, 2,300,
Pueblo— Acoma (Albuquerque)				
			95, 792 24, 256	95, 24 ,
Laleta (Albuquerque)			i ito nan i	110.4
Jemes.			42,359 101,511 150,000	42, 101, 150,
Leguns (Albuquerque)			101,511	101,
Nambe.			18,586	13.
Picuris			17,461	17,
rojonque			17,461 13,520	13, 17, 13,
Sen Tren			24, 187 17, 545 34, 767 17, 361	924.1
San Dia (Albuquerque). San Felipe (Albuquerque). Santa Ana (Albuquerque). Santa Clara. Santo Clara.			1/,045 34 767	17, 84, 17,
Santa Ana (Albuquerque)		l	17,361	17.
Santa Clara			1 99.009 1	49.3
Banto Domingo			92,398 17,515	92, 17,
Sia. San Ildefonso. Taos. Tesuque.			17,515	17,
Tags			17, 293 17, 361	17, 17, 17,
Tesuque. Zuni.			17, 3 61 17, 471	17.
			288,040	288, (

¹Includes 12,348 acres purchased from the Omaha Indians. ² Executive orders 1910 and 1917.

TABLE 5 .- Area of Indian lands June 30, 1918-Continued.

	Number	Ares in scres.		
States and reservations.	allotments.	Allotted.	Unallotted.	Total.
New York			87,677	87,67
Allegany			30, 469	30, 46
Oil Spring			21,690 640	21,69 64
Cattaraugus. Oil Spring. Oneida.			350	35
Onondaga		·	6,100	6, 10
Tonewande			14,640 7,549	14, 64 7, 54
Oneida. Onondaga. St. Regia. Tonawanda. Tuscarora.			6, 249	7, 54 6, 24
orth Carolina: Qualla	1		63, 211	63, 21
orth Dakota	8,380	2,005,320	100,000	2, 105, 32
Devils Lake (Fort Totten) Fort Berthold	1, 189 2, 165 4, 700 326	137, 381 435, 708 1, 388, 411 43, 820		187,38 535,70 1,388,41
Fort Berthold	2,165	435,708	100,000	535,70
Standing Rock. Turtle Mountain	4,700	43,820		43,82
	1	l .	15 961	
klahoma	116,701	19, 548, 888	15, 361	19, 564, 24
Cherokee. Chickasaw	40, 193	4,846,203	30 10	4,346,23 3,800,38
Choctaw	10, 955 26, 723	8,800,350 4,291,036	14.460	4, 305, 49
Choctaw Creek	26, 723 18, 710 3, 118	4, 291, 036 2, 997, 114 359, 535	14,460 852	4, 305, 49 2, 997, 46 359, 65
Seminole	3, 118	359, 535	122	359, 65
Cherokee Outlet. Cheyenne and Arapeho. Iowa (Sac and Fox). Kansa (Kaw now Ponca).	62 3,331	4, 949 528, 789		4,94 528,78
Iowa (Sac and Fox)	108	8, 605	l	8,60
Kansa (Kaw now Ponca)	247	8, 605 99, 644 22, 650		8, 60 99, 64 22, 65
Kickapoo (Shawnee)	280	22,650		22,65
Modoc (Seneca)	3,451 68	3,986		547, 23 8, 96
Kickapoo (Shawnee). Kiowa, Comanche, and Apache Modoc (Semeca). Oakland (Ponca).	73	547, 236 3, 966 11, 456 1, 465, 350		11,45
Osage Otoe Ottawa (Seneca). Pawnee	2,230	1,465,350		1.400.35
Ottown (Serese)	514 160			128, 35
Pawnee	820	12,995 112,701 43,334		12,99 112,70 43,33
FOUR (Select)	218	43, 334		43,33
Ponca.	782	100,745	387	101, 13
Potawatomi (Shawnee)Quapaw (Seneca)	2,109 248	291,736 56 245		291,73 56 24
Sac and Pox	548	100,745 291,736 56,245 87,684		101,13 291,73 56,24 87,68
Senera	435	91.813	[AI XI
Shawnee	117 957	12,745 152,714 20,942		12,74
Wichita (Kiowa). Wyandotte (Seneca)	244	20 042		12,74 152,71 20,94
•		l	1,209,349	1,718,00
Grande Ronde (Siletz)	4, 258	508, 657	1,200,340	
Klamath	269 1,351	32, 983 208, 279	812,707	32, 98 1, 020, 98
Rijetz	551	44, 459		44,45
Umatilla. Warm Springs.	1,115 967	44, 459 82, 644 140, 292	74, 130 322, 512	44,45 156,77 462,80
outh Dakota	27,377	6, 259, 958	408,714	6, 668, 67
Chevenne River	3,686		218, 149	1, 210, 83
Crow Creek and Old Winnebago	1,460	992, 681 272, 560	220,140	272,56
Cheyenne River. Crow Creek and Old Winnebago. Lake Traverse (Sisseton). Lower Brule	1 2.006	308, 838	<u>-</u>	208 83
Pine Ridge	868	201,991	24,000 161,565	225,99
Rosebud	8, 257 8, 487	306, 838 201, 991 2, 363, 818 1, 851, 812	101,000	225, 96 2, 525, 37 1, 851, 81
Yankton	2,618	268, 263		268, 26
tah	1,367	111,947	1,529,360	1,641,30
Goshute and Deen Creek			34 500	34,50
Navajo (see Arizona and New Mexico)		l	34,500 600,000	600,00
Goshute and Deep Creek			600,000 26,880	600.00
			26,880	26,89
Skull Valley Uintah Valley Uncompangra	777	39, 620 72, 327	18, 640 249, 340	18,64 288,96 72,32

TABLE 5.—Area of Indian lands June 30, 1918—Continued.

	Number	Area in acres.		
States and reservations.	allotments.	Allotted.	Unallotted.	Total.
Washington	9, 960	1,019,079	1,699,807	2, 718, 880
Chehalis (Cushman)	36	3,799		3,790
Columbia (Colville)	35	22, 618		22, 618
Colville	2,918	332, 796	1,009,580	1, 842, 87
Hoh River (Neah Bay)			640	640
Kalispel (Coeur d'Alene)			4,629	4, 62
Lummi (Tulalip)	109		l	12, 56
Makah (Neah Bay)	373	3,728	19,312	23,04
Muckleshoot (Cushman)	43	3,491		3, 49
Nisqualli (Cushman)	30	4,717	l	4,71
Ozette (Neah Bay)		l	640	64
Port Madison (Tulalip)	51	7, 219	66	7,28
Puvallup (Cushman)	167	17,463		17, 46
Quileute (Neah Bay)			837	88
Quinaielt (Taholah)	690	54,990	168, 553	223, 54
Shoalwater (Cushman)		l	335	334
Skokomish (Cushman)	134	7,903	l	7.80
Snohomish (Tulalip)	164	22, 166	324	22, 49
Spokane	628	64,954	82,488	147, 44
Squaxon Island (Cushman)	23	1,494		1,49
Swinomish (Tulalip)	71	7,359	· · · · · · · · · · · · · · · · · · ·	7,35
Yakima	4,488	451,922	412, 404	864, 32
Wisconsin	4,965	319,026	270, 734	589,760
Lec Courte Oreille (Hayward)	881	68, 910	540	69, 45
Lee du Flambeau	600	45,756	24, 424	70, 18
La Pointe (Bad River)	1,608	115, 806	14,090	129, 89
Menominee (Keshena)			231,680	231, 69
Opeids	1,504	65, 466		65, 46
Red Cliff	205			14, 16
Stockbridge and Munsee (Keshena)	167	8, 920	····	8, 92
Wyoming: Wind River (Shoshone)	2,397	245,058	584,940	829,99
Public domain	7,724	1, 108, 842	l	1, 108, 84

TABLE 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	rea (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
ARIZONA.	Acres.	
Camp McDowell	24,971	Executive order, Sept. 15, 1903; act of Apr. 21, 1904, vol. 33, p. 211. (See Ann. Rept. 1905, p. 98.)
Tribe: Mohave Apache. Cocopah	236,010	Executive order, Sept.27, 1917, school reserve. Act of Mar. 3, 1865, vol. 13, p. 559; Executive orders, Nov. 22, 1873, Nov. 16, 1874, and May 15, 1876. (See sec. 25, Indian appropriation act, approved Apr. 21, 1904, vol. 33, p. 224,
Tribes: Chemehuevi, Kawia, Cocopa, Mohave.		Act Apr. 30, 1908 (35 Stat., 77); act Apr. 4, 1910 (38 Stat., 273); act Mar. 3, 1911 (38 Stat., 1063); act Aug. 24, 1912) 37 Stat., 523); Executive order, Nov. 22, 1915. 616 Indians allotted 6,160 acres.
Fort Apache School.) Tribes: Chilion, Chiricahua, Coyotero, Mimbreño, and Mogollon Apache.	1,681,920	Executive orders, Nov. 9, 1871, July 21, 1874, Apr. 27, 1876, Jan. 26 and Mar. 31, 1877; act of Feb. 20, 1893, vol. 27, p. 469 agreement made Feb. 25, 1896, approved by act of June 10, 1896, vol. 29, p. 358. (See act of June 7, 1897, vol. 30, p. 64.)
Fort Mojave	81,328	Executive orders, Dec. 1, 1910, and Feb. 2, 1911. Sec. 11, act June 25, 1910 (36 Stat., 865-858). (See 18579-1910.) Area original mulitary reservation, 14,000 acres.
Gila Bend(Under Pima School.) Tribe: Papago.	• 10, 231	Executive orders, Dec. 12, 1882, and Jan. 17, 1909. (See 4106, 1909.)
Gils River	³ 871, 422	Act of Feb. 28, 1859, vol. 11, p. 401; Executive orders, Aug. 31, 1876, Jan. 10, 1879, June 14, 1879, May 5, 1882, and Nov. 15, 1883; Mar. 22, May 8, July 31, 1911; Dec. 16, 1911; June 2, 1913; Aug. 27, 1914; Mar. 18, 1915, and July 19, 1915.

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Table 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
ARIZONA—continued. Havasupai (Supai). (Under Havasupai School.)	Acres. 1 518	Executive orders, June 8 and Nov. 23, 1880, and Mar. 31, 1882.
Tribe: Havasupai. Hopi (Moqui). (Under Moqui School.) Tribe: Hopi (Moqui) and Navajo.	2, 472, 820	Executive order, Dec. 16, 1882. Act of Mar. 1, 1907 (34 Stat. L., 1021.) (See 45096-1910.)
Kaibab	138, 940	Secretary's withdrawal, Oct. 15, 1907. (See 73684-1907.) Executive order, June 11, 1913.
Navajo †. (Under Leupp, Navajo, Western Navajo, San Juan, and Pueblo Boni- to Schools.) Tribe: Navajo.	11,887,798	Treaty of June 1, 1868, vol. 15, p. 667, and Executive orders, Oct. 29, 1878, Jan. 6, 1880, two of May 17, 1884, and Nov. 19, 1892. 1,769,600 acres in Arizona and 967,680 acres in Utah were added to this reservation by Executive order of May 17, 1884, and 46,690 acres in New Mexico restored to public domain, but again reserved by Executive orders, Apr. 24, 1886, Jan. 8, 1900, and Nov. 14, 1901. By Executive orders of Max. 10 and May 15, 1805, 61,823 acres were added to reservation and by Executive order of Nov. 9, 1907, as amended by Executive order of Ian. 28, 1908, 2,972,160 acres were added. 2,004 Indians have been allotted 328,963 acres under the act of Feb. 8, 1887 (24 Stats., 388), as amended. By Executive orders of Dec. 30, 1908, and Jan. 16, 1911, the surplus lands, approximately 1,641,120 acres, in that part of the extension in New Mexico restored to the public domain. (See 35 Stat. L., 457 and 787.) (See 1277-9.) Act of May 27, 1902 (32 Stat., 284), and Mar. 3, 1913 (37 Stat., 1907), R. Exchanges. Executive orders May 24, 1911, Feb. 17, 1912 (2), Feb. 10, 1913 (2), May 6, 1913, Dec. 1, 1913. July 23, 1914, and Feb. 19, 1915. Also 94,000 acres set aside temporarily for allotment by Executive order, May 7, 1917. Executive order, Mujt 1, 1874, and act of Aug. 5, 1882, vol. 22, p. 291. 41,606 acres allotted to 291 Indians, and 14 acres
Papago. (Under San Xavier School.) Tribe: Papago.	2, 443, 462	(See letter book 208, p. 408.) Executive orders, June 16, 1911, and May 28, Sept. 2, Oct. 8, and Dec. 5, 1912, Oct. 27, 1914 I an 14, 1916, and Feb. 1, 1917.
Salt River	22,817	Oct. 23, 1911. (See 26731-1910.) (See Senate Doc. 90, 58th Cong., 2d sess.) 804 Indians allotted 24,403 acres under
San Carlos (Under San Carlos School.) Tribes: Arivaipa, Chilion, Chiricahua, Coyotero, Mimbredo, Mogollon, Mohave, Pinal, San Car- los, Tonto, and Yuma	1,834,240	general antiment set. Executive orders, Nov. 9, 1871, Dec. 14, 1872, Aug. 5, 1873, July 21, 1874, Apr. 27 and Oct. 30, 1876, Jan. 26 and Mar. 31, 1877; act of Feb. 20, 1893, vol. 27, p. 469; agreement made Feb. 25, 1896, approved by act of June 10, 1896, vol. 29, p 358. (For fuller text see Misc. Indian Doc., vol. 39, p. 35910.) (See act of June 7, 1897, vol. 30, p. 64; act of Mar. 2, 1901, vol. 31, p. 962.) Executive order of Dec. 22, 1902.
Apache. Walapai. (Under Truxton Cañon School.) Tribe: Walapai.	730,940	Executive orders, Jan. 4, 1883, Dec. 22, 1898, May 14, 1900, June 2, 1911, May 29, 1912, and July 18, 1913.
Total	21, 886, 112	
CALIFORNIA.		
Camp or Fort Independence Cold Springs Colony or Nevada Digger (Under a farmer.) Tribe: Digger.	360 160 75 370	Executive orders, Oct. 28, 1915, and Apr. 29, 1916. Executive order, Nov. 10, 1914. Executive order, May 6, 1913. Act of Mar. 3, 1803 (27 Stats., 612), provides for purchase of 330 acres; not allotted. 40 acres were reserved by order of the Secretary of the Interior, Oct. 28, 1903, for Digger Indians. (See 46897-1907, 71861-1908, 39245-1909.)
Fort Bidwell. Guidiville band. Hoopa Valley. (Under Hoopa Valley School.) Tribes: Hunsatung, Hupa, Klamath River, Miskut, Redwood, Salas, Sermalton, and Tishtsnatan.	320 160 13 99,051	Executive order, Aug. 8, 1917, school reserve. Secretary's withdrawal for wood lot. (See 22266-1909.) Act of Apr. 8, 1864, vol. 13, p. 39; Executive orders, June 23, 1876, and Oct. 16, 1891. There have been allotted to 639 Indians 29,143.88 acres, reserved to 3 villages 68.74 acres, and opened to settlement under act of June 17, 1892 (27 Stats., p. 52), 15,096.11 acres of land (formerly Klamath River Reservation). (Letter book 263, p. 96; 382, p. 480: 383, p. 170.)
1 Outboundaries surveyed.	2 Partl	y in New Mexico. (See Table 5.) ² Partly surveyed.

Table 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
CALIFORNIA—continued. Mission (28 reserves)	Acres. 181,844	Executive orders, Jan. 31, 1870, Dec. 27, 1875, May 15, 1876 May 3, Aug. 25, Sept. 29, 1877, Jan. 17, 1880, Mar. 2, Mar. 9 1881, June 27, July 24, 1882, Feb. 5, June 19, 1883, Jan. 25 Mar. 22, 1886, Jan. 29, Mar. 14, 1887, and May 6, 1889. 270.2 acres allotted to 17 Indians and for church and cemeter; purposes on Syquan Reserve (letter book 303, p. 297), and 1, 299,47 acres allotted to 85 Temecula Indians, 2.70 acres reserved for school purposes (letter book 351, p. 312). Ex ecutive order, Dec. 29, 1891. Proclamations of President of Apr. 16, 1901, vol. 32, p. 1970, and May 29, 1902, vol. 32, p. 2005; act of Feb. 11, 1903, vol. 32, p. 822. 174,936.73 acres pat ented by the Government to various bands under acts of
Chuckekansics	160 3,840 1 75,806	Jan. 12, 1891 (26 Stat. L., 712), and Mar. 1, 1907 (34 Stat. L. 1015-1022). (See misc. tract book 36, and President's problamation, Aug. 31, 1915.) See Ex. Ords. Aug. 16, 1917; Jan. 26, 1918, extending trust periods 10 years. Executive orders, Apr. 24, 1912, and Aug. 14, 1914. Executive orders, Apr. 24, 1912, partly canceling Executive order withdrawal. Executive orders, Mar. 11, 1912, May 9, 1912, Sept. 7, 1912, Sept. 16, 1912, Feb. 14, 1913, and July 22, 1915.
Pala. (Formerly Warner's Ranch Indians.)		Executive orders, Mar. 11, 1912, May 9, 1912, Sept. 7, 1912, Sept. 16, 1912, Feb. 14, 1913, and July 22, 1915. 119.99 acres allotted to 15 Indians (letter book 303, p. 57). 16: allotments of approximately 2 acres of irrigable land and 6 acres of grazing land approved and patented under act o Feb. 8, 1887 (24 Stat. L., 388), as amended. Lands reserved under authority of acts of Jan. 12, 1891 (26 Stat. L., 712), and Mar. 1, 1907 (34 Stat. L., 1022), and bought under act of May 8, 1902 (32 Stat. L., 257). See authority 7971 and letter book 580, p. 113. Deed recorded in Miscellaneous Record Book No. 5. p. 193.
Round Valley		under authority of acts of Jan. 12, 1891 (26 Stat. L., 712), and Mar. 1, 1907 (34 Stat. L., 1022), and bought under act of May 8, 1902 (32 Stat. L., 257). See authority 7971 and letter book 580, p. 113. Deed recorded in Miscellaneous Record Book No. 5, p. 193. Acts of Apr. 8, 1864, vol. 13, p. 39, and Mar. 3, 1873, vol. 17, p. 634; Executive orders, Mar. 30, 1870, Apr. 8, 1873, May 18, 1875, and July 28, 1876; act of Oct. 1, 1890, vol. 26 p. 658, 42, 105.56 acres allotted to 1,034 Indians, 1,110 acres reserved for school and agency purposes (72083-1907, letter books p. 17, and 395, p. 260). (See act of Feb. 8, 1905, providing for a reduction of area of reservation, vol. 33, p. 706.) 36,692.23 agres additional allotments made to 619 Indian and 740 acres reserved for school purposes.
Tule River. (Under Tule River School.) Tribes Kawia, Kings River, Mosche, Tehon, Tule, and Wichumni.	48, 551	Executive orders, Jan. 9 and Oct. 3, 1873, and Aug. 3, 1878.
Yuma (Under Fort Yuma School.) Tribe: Yuma-Apache.	30,949	Executive order, Jan. 9, 1884; agreement, Dec. 4, 1893, ratifiles by act to Aug. 15, 1894, vol. 28, p. 332. (See sec. 25, Indian appropriation act, approved Apr. 21, 1904, vol. 33, p. 224.) 7,755.54 acres irrigable land opened under act of June 17, 1902 (32 Stats., 389, act Mar. 3, 1911 (36 Stats., 1963). 8,110 acres allotted to 811 Indians.
Total	441, 646	
Ute • (Under Navajo Springs and Southern Ute Schools.) Tribes: Capote, Mosche, and Wimhnuche Ute.	396, 143	Treaties of Oct. 7, 1863, vol. 13, p. 673, and Mar. 2, 1868, vol. 15, p. 619, act of Apr. 29, 1874, vol. 18, p. 36: Executive or ders, Nov. 22, 1875, Aug. 17, 1879, Feb. 7, 1879, and Aug. 4, 1882, and act of Congress approved June 15, 1880, vol. 21, p. 199, and July 28, 1882, vol. 22, p. 178, May 14, 1884, vol. 23, p. 22, Aug. 15, 1884, vol. 28, p. 337, Feb. 20, 1895, vol. 28, p. 677, 72,651 acres allotted to 371 Indians and 360 acres reserved for use of Government (letter book 321, p. 36), sax 7,360.32 acres allotted to 39 Indians (letter book 331, p. 395), 523,079 acres opened to settlement by President's proclamation dated Apr. 13, 1899 (31 Stats., 1947). The residue 375,960 acres, retained as a reservation for the Wiminuche Utes. Act June 30, 1913 (38 Stat., 82), exchange of lands with Indians. Executive order, Nov. 12, 1915.
Total	396, 143	

Partly in Nevada.

Partly in New Mexico.

Not on reservation.

TABLE 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
FLORIDA. Seminole(Under special agent.)	· Acres. 1 26,741	Acts Aug. 15, 1894 (28 Stats., 303), Mar. 2, 1895 (28 Stat., 892), June 10, 1896 (29 Stat., 337), June 7, 1897 (30 Stat., 78), Mar. 1, 1890 (30 Stat., 938), June 6, 1900 (31 Stat., 302), Apr. 4, 1910 (36 Stat., 274). 23,061.72 acres purchased for Seminole Indians in Florida under acts mentioned (see Annual Report for 1900, p. 101). 3,680 acres reserved by Executive order of June 28, 1911. (See 20817-1909.)
Total	26,741	
Coeur d'Alene	1 21, 263	Executive orders June 14, 1867, and Nov. 8, 1873; agreements made Mar. 26, 1887, and Sept. 9, 1889, and confirmed in Indian appropriation act approved Mar. 3, 1891, vol. 26, pp. 1026, 1029. Agreement, Feb. 7, 1894, ratified by act of Aug. 15, 1894, vol. 28, p. 222. 638 Indians have been allotted 104,077 scress and 1,905,99 acres have been reserved for agency, school, and church purposes and for mill sites. (See 86950-1908, and acts of June 21, 1906 (34 Stat. L., 22-355), Mar. 3, 1891 (26 Stat. L., 1026-1029), Aug. 15, 1894 (28 Stat. L., 322), Mar. 27, 1906 (35 Stat. L., 55), Apr. 30, 1909 (35 Stat. L., 78). President's proclamation issued May 22, 1909, opening 224,210 acres surplus lands to settlement. (37 L. D., 698.) Treaty of July 3, 1889, vol. 15, p. 673; Executive orders, June 14, 1867, and July 30, 1869; agreement with Indians made July 18, 1881, and approved by Congress July 3, 1882, vol. 22, p. 148; agreement of May 27, 1887, ratified by acts of Sept. 1, 1888, vol. 25, p. 452, Feb. 23, 1889, vol. 25, p. 687, and Mar. 3, 1891, vol. 28, p. 1011. Agreement made Feb. 5, 1898, ratified by act of June 6, 1900, vol. 31, p. 672, ceding 416,000 acres, of which 6,298.72 acres have been allotted to 79 Indians (see letter book 527, p. 473); remainder of ceded
(Under Fort Hall School.) Tribes: Bannock and Shoshoni.		tract opened by settlement June 17, 1942 (President's proc- lamation of May 7, 1902, vol. 32, p. 1997) act of Mar. 30, 1904, vol. 33, p. 153, act of Mar. 3, 1911 (36 Stat., 1064); 1,863 allot- ments, covering 338,909 acres, approved Oct. 28, 1914 (37108-13)
Lapwai (Under Fort Lapwai School.) Tribe: Nes Perce. Lemhi	34, 190	Treaty of June 9, 1863, vol. 14, p. 647; agreement, May 1, 1863, ratified by act of Aug. 15, 1804, vol. 28, p. 328. 178, 312 acres allotted to 1,876 Indians, 2,170.47 acres reserved for agency, school, mission, and cemetery purposes, and 32,020 acres of timberiand reserved for the tribe; the remainder restored to public settlement. (President's proclamation, Nov. 8, 1876, colored and 1876, colored acres of the colored acres o
		Tool, 26 States, 575, 1868, and Executive order, Feb. 12, 1875; agreement of May 14, 1880, ratified by act of Feb. 23, 1889, vol. 25, p. 687. (See 34 Stat. L., 335, and agreement executed Dec. 28, 1905, approved by President Jan. 27, 1906.) Act of June 21, 1906 (34 Stat., 334), about 64,000 acres opened in 1909. (See 36809-1908.)
Total	55, 458	
Sauk and Fox. (Under Sac and Fox Agency.) Tribes: Potawatomi, Sauk and Fox of the Missis- sippi, and Winnebago.	3, 480	By purchase. (See act of Mar. 2, 1867, vol. 14, p. 507.) Deeds 1857, 1865, 1867, 1868, 1869 1876, 1880, 1882, 1883, 1888, June, July, and Oct., 1892-1896. (See act of Feb. 13, 1891, vol. 26, p. 749.) (See Ann. Repts., 1891, p. 681; 1898, p. 81.) Deeds recorded, vol. 6. (See 95856-1907.)
Total	3, 480	
Kansas		
Chippews and Munsee(Under Potswatomi School.) Tribes: Chippews and Munsee.	••••••••	Treaty of July 16, 1859, vol. 12, p. 1105. 4,195.31 acres allotted to 100 Indians; the residue, 200 acres, allotted for missionary and school purposes. Patents issued to allottees; balance of allotments sold and proceeds paid to heirs. (See ninth section of act of June 7, 1897, vol. 30, p. 92; L. B., 282, p. 63.)
¹ Surveyed.		² Not on reservation.

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Table 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

	T	
Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
KAMBAS—continued.	Acres.	
Iowa ¹ . (Under Kickapoo School.) Tribe: Iowa.		 Treaties of May 17, 1884, vol. 10, p. 1099, and of Mar. 6, 1861, vol. 12, p. 1171. 11,768.77 acres of land allotted to 143 Indians; 162 acres reserved for school and cemetery purposes. (Letter book 266, p. 86.) Acts Mar. 3, 1885 (28 Stat., 352). and Ian. 28, 1887 (24 Stat. 367).
Kickapoo (Under Kickapoo School.) Tribe: Kickapoo.		Treaties of May 17, 1854, vol. 10, p. 1069, and of Mar. 6, 1861, vol. 12, p. 1171. 11,768.77 acres of land allotted to 143 Indians; 162 acres reserved for school and cemetery purposes. (Letter book 266, p. 86.) Acts Mar. 3, 1885 (28 Shat., 352), and Jan. 26, 1887 (24 Shat., 367). Treaty of June 28, 1862, vol. 13, p. 623. 27,691.27 acres allotted to 351 Indians; 245 acres reserved for church and school; the residue, 286.27 acres, unallotted (letter books 264, p. 480, and 772, p. 64). (Acts of Aug. 4, 1886 (24 Stat., 219), Feb. 28, 1899, vol. 30, p. 909, and Mar. 3, 1803, vol. 33, p. 1007.) Treaties of June 5, 1846, vol. 9, p. 383; of Nov. 15, 1861, vol. 12, p. 1191; treaty of relinquishment, Feb. 27, 1867, vol. 15, p. 831. 220,785 acres allotted to 2,363 Indians; 319 acres reserved for school and agency, and 1 acre for church.
Potawatomi (Under Potawatomi School.) Tribe: Prairie Band of Potawatomi.		(Acts of Feb. 28, 1899, vol. 30, p. 909, and Mar. 3, 1908, vol. 32, p. 1007.) 980 acres surplus tribal land sold under act
Sank and Fox 1. (Under Kickspoo School.) Tribe: Sauk and Fox of the Missouri.	•••••	rout period 10 years, except in 11 cases. Treaties of May 13, 1854, vol. 10, p. 1074, and of Mar. 6, 1861, vol. 12, p. 1171; acts of June 10, 1872, vol. 17, p. 391, and Aug. 15, 1876, vol. 19, p. 208. 2,843.97 acres in Kansas, 4,194.33 acres in Nebraska, aggregating 7,038.30 acres, allotted to 84 indians, and under act June 21, 1906 (34 Btats., 324-349), 960,91 acres were allotted to 37 indians, leaving 57 acres unallotted. (Letter books 233, p. 361; 383, p. 37; and 512, p. 110.)
Total	•••••	
MICHIGAN.		
Isabella Tribe: Chippewa of Saginaw, Swan Creek, and Black River.	191	Executive order, May 14, 1855; treaties of Aug. 2, 1855, vol. 11, p. 633, and of Oct. 18, 1864, vol. 14, p. 657. 98,895 acres allotted to 1,943 Indians.
L'Anse (Under special agent.) Tribe: L'Anse and Vieux Desert Bands of Chip- pewa of Lake Superior.	••••	Treaty of Sept. 30, 1854, vol. 10, p. 1109. 52,121 acres allotted to 668 Indians. Payment for lands in sec. 16, see 93879-1907. Unappropriated tracts, see 10283-1915.
Ontonagon. (Under special agent.) Tribe: Ontonagon Band of Chippewa of Lake Superior.	•••••	Sixth clause, second article, treaty of Sept. 30, 1854, vol. 10, p. 1109; Executive order, Sept. 25, 1855. 2,561.35 acres allotted to 35 Indians.
Ottawa and Chippewa	•••••••	Treaty July 31, 1855. (11 Stat., 621.) 120,470 acres allotted to 1,818 Indians.
Total	191	-
Bois Fort. (Under Nett Lake School.) Tribe: Bois Fort Chippewa.		Treaty of Apr. 7, 1866, vol. 14, p. 765; act of Jan. 14, 1889, vol. 25, p. 642. (See H. Ex. Doc. No. 247, 51st Cong., 1st sess., p. 63.) 56,467.20 acres allotted to 721 Indians and 434.63 acres reserved for agency, etc., purposes. (L. B. 359,382);
Deer Creek	•••••	acres reserved for agency, etc., purposes. (L. B. 359,382); residue, 51,863 acres, opened to public settlement. Executive order, June 30, 1883; act of Jan. 14, 1889, vol. 25, p. 642. (See H. Ex. Doc. No. 247, 51st Cong 1st sess., p. 63.) 295.55 acres allotted to 4 Indians: residue, 22,744 acres, opened to public settlement. (Executive order of Dec. 21,288)
Fond du Lac. (Under Fond du Lac School.) Tribe: Fond du Lac Band of Chippewa of Lake Superior.		63.) 296.55 acres allotted to 4 Indians; residue, 22,744 acres, opened to public settlement. (Executive order of Dec. 21, 1858.) Treaty of Sept. 30, 1854, vol. 10, p. 1109; act of May 25, 1972, vol. 17, p. 190. 37,121 acres allotted to 563 Indians; act of Jan. 14, 1889, vol. 25, p. 642. (See H. Ex. Doc. No. 247, 51st Cong., 1st sees., p. 60.) The residue, 76,837 acres, restored to settlement. Agreement of Nov. 21, 1839. (See act of Jan. 14, 1839, vol. 25, p. 642.) Act June 30, 1913 (Public No. 4), and Executive order, Mar. 4, 1915. Treaty of Sept. 30, 1854. vol. 10, p. 1109; act of Jan. 14, 1889.
Grand Portage (Pigeon River). (Under Grand Portage agency.) Tribe: Grand Portage Band of Chippewa of Lake Superior.		lic No. 4), and Executive order, Mar. 4, 1915. Treaty of Sept. 30, 1834, vol. 10, p. 1109; act of Jan. 14, 1889, vol. 25, p. 642. (See H. Ex. Doc. No. 247, 51st Cong., 1st sees., p. 59.) 24, 191.31 acres allotted to 304 Indians; 208.24 acres reserved for agency and wood purposes; residue, 16,041.97 acres, opened to public settlement. Executive order, Mar. 21, 1917, setting aside two small unsurveyed islands for reservation purposes.
In Kaness and Nahr	oebo .	\$ A gener sholished Tune 30 1890

¹ In Kansas and Nebraska.

² Agency abolished June 30, 1889.

TABLE 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
MINIMESOTA—continued.	Acres.	
Leech Lake. (Under Leech Lake Agency.) Tribes: Cass Lake, Pillager, and Lake Winibigoshish Bands of Chippews.		Treaty of Feb. 22, 1855, vol. 10, p. 1165: Executive orders, Nov. 4, 1873, and May 26, 1874; act of Jan. 14, 1839, vol. 25, p. 642. (See H. Ex. Doc. No. 247, 51st Cong., 1st sess., p. 49.) 48,446 acres allotted to 630 Indians and 321.60 acres reserved for agency and school purposes. (Act of June 27, 1902, vol. 32, p. 402.) Minnesota National Forest act, May 23, 1908 (35 Stat., 268). Executive order Feb. 16, 1911.
Mdewakanton (Under Birch Cooley School.) Tribe: Mdewakanton Sieux.		23, 1908 (35 Stat., 268). Executive order Feb. 16, 1911. By purchase. (See acts of July 4, 1884, Mar. 3, 1885, May 15, 1886, June 29, 1888 (25 Stat., 228); Mar. 2, 1889 (25 Stat., 922). and Aug. 19, 1890 (26 Stat., 349). 339.70 acres deeded to 47 Indians; 12,242.76 acres allotted to 88 Indians and held in trust by the United States; 8.90 acres reserved for school. (See Ann. Rpt., 1891, pp. 111 and 179, and schedule approved Nov. 21, 1904.) Act Mar. 4, 1917 (39 Stat. L., 1195). Treaties of Feb. 22, 1855, vol. 10, p. 1165, and article 12, of May 7, 1864, vol. 13, pp. 693, 695; act of Jan. 14, 1889, vol. 25, pp. 642. (See H. Ex. Doc. No. 247, 51st Cong., 1st sess., p. 45.) Joint resolution (No. 40) approved May 17, 1898, vol. 30, p. 745. (See Ann. Rept. 1890, pp. 38-43.) Purchase of land act of Aug. 1, 1914 (38 Stat., 591). Treaty of Oct. 2, 1863, vol. 13, p. 667; act of Jan. 14, 1889, vol. 25, p. 642. (See agreement July 8, 1889, H. Ex. Doc. No. 247, 51st Cong., 1st sess., pp. 27 and 32), and Executive order, Nov. 21, 1892. Act of Mar. 3, 1903, vol. 32, p. 1009, and act of Feb. 20, 1904, ratifying agreement made Mar. 10, 1902, vol. 33, p. 46, for sale of 256, 152 acres. Act of Feb. 8, 1905, vol. 33, p. 46, for sale of 256, 152 acres. Act of Feb. 8, 1905, vol. 33, p. 708 greating 320 acres a right of tway for the
Mille Lac (Under White Earth School.) Tribe: Mille Lac and Snake River Bands of Chippewa.		Treaties of Feb. 22, 1855, vol. 10, p. 1165, and article 12, of May 7, 1864, vol. 13, pp. 693, 695; act of Jan. 14, 1889, vol. 25, p. 642. (See H. Ex. Doc. No. 247, 51st Cong. 1st sess., p. 45.) Joint resolution (No. 5), Dec. 19, 1893, vol. 23, p. 576, and joint resolution (No. 40) approved May 17, 1896, vol. 30, p. 745. (See Apn. Rept. 1890, pp. 38-43.) Purchase of land act of Aug. 1, 1914 (38, 58tat., 591).
Red Lake(Under Red Lake School.) Tribe: Red Lake and Pembina Chippewa.	543, 528	Treaty of Oct. 2, 1863, vol. 13, p. 667; act of Jan. 14, 1889, vol. 25, p. 642. (See agreement July 8, 1889, H. Ex. Doc. No. 247, 51st Cong., 1st sess., pp. 27 and 32), and Executive order, Nov. 21, 1892. Act of Mar. 3, 1903, vol. 32, p. 1009, and act of Feb. 20, 1904, ratifying agreement made Mar. 10, 1902, vol. 33, p. 46, for sale of 256, 152 acres. Act of Feb. 3, 1905, vol. 33, p. 708, granting 320 acres as right of way for the Minneapolis, Red Lake & Manitoba Ry. Co. Executive order, Feb. 16, 1911.
Vermillion Lake (Under Vermillion Lake School.) Tribe: Bois Fort Chip- pewa.	1 1,090	p. 642.
White Earth (Under White Earth School.) Tribes: Chippewa of the Mississippi, Pembina, and Pillager Chippewa.	9,200	Treaty of Mar. 19, 1867, vol. 16, p. 719; Executive orders, Mar. 18, 1879, and July 13, 1883, act of Jan. 14, 1889, vol. 25, p. 642. (See agreement July 29, 1889, H. Ex. Doc. No. 247, 51st Cong., 1st seess., pp. 34 and 36.) Under act of Jan. 14, 1889 (25 Stat., 642), 428, 401.05 acres have been allotted to 5,152 Indians, and 1,899,61 acres reserved for agency, school, and religious purposes, and under act of Apr. 28, 1904 (33 Stat., 539), 246,956.13 acres have been allotted to 2,816 Mississippi and Otter Tail Piliager Chippewa, being additional allotments to a part of the allottees under act of Jan. 14, 1899, leaving unallotted and unreserved 9,290 acres. Act June 21, 1906 (34 Stat., 353.) Treaties of Feb. 22, 1855, vol. 10. p. 1165, and of Mar. 19, 1867, vol. 16, p. 719; Executive orders, Oct. 29, 1873, and May 24, 1874, erf of Jan. 14, 1889, vol. 25, 7,72, (See H. May 24, 1874).
White Oak Point and Chippews. (Under Leech Lake Agenoy). Tribes: Lake Winibigoshish and Pillager Bands of Chippews and White Oak Point Band of Mississippi Chippews.		Treaties of Fab. 22, 1835, vol. 10. p. 1165, and of Mar. 19, 1867, vol. 16, p. 719; Executive orders, Oct. 29, 1873, and May 26, 1874; act of Jan. 14, 1889, vol. 25, p. 742. (See H. Ex. Doc. No. 247, 51st Cong., 1st sess., pp. 42, 49.) 64,732 acres allotted to 826 Indians; the residue opened to public settlement; 240 acres reserved for ball park. (See 289-1908.)
Total	553,898	
Blackfeet. (Under Blackfeet School.) Tribes: Blackfeet, Blood, and Piegan.	604, 828	Treaty of Oct. 17, 1855, vol. 11, p. 657; unratified treaties of July 18, 1866, and of July 13 and 15 and Sept. 1, 1868; Executive orders, July 5, 1873, and Aug. 19, 1874; act of Apr. 15, 1874, vol. 18, p. 28; Executive orders, Apr. 13, 1876, and July 13, 1880, and agreement made Feb. 11, 1887, approved by Cougress May 1, 1883, vol. 25, p. 129; agreement made Sept. 26, 1895, approved by act of June 10, 1896, vol. 29, p. 353; act of Feb. 27, 1905, confirming grant of 356, 11 acres of land and 120 acres of unsurveyed land. (See vol. 33, p. 816.) Act of Mar. 1, 1907 (34 Stats., 1035). 2,656 Indian; allotted 830,979 acres. 44,240.07 acres timber reserved

Outboundaries surveyed.

TABLE 6.—Genetal data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
MONTANA—continued. Crow(Under Crow School.) Tribes: Mountain and River Crow.	Acres. 1,832,109	Treaty of May 7, 1868, vol. 15, p. 649; agreement made June 12, 1880, and approved by Congress Apr. 11, 1882, vol. 22, p. 42, and agreement made Aug. 22, 1881, approved by Congress July 10, 1882, vol. 22, p. 157; Executive orders, Oct. 20, 1875, Mar. 8, 1876, Dec. 7, 1885; agreement made Dec. 8, 1890; ratified and confirmed in Indian appropriation act approved Mar. 3, 1891, vol. 26, pp. 1039-1040; agreement made Aug. 27, 1892. (See Ann. Rept., 1892, p. 748; also President's proclamation, Oct. 15, 1892, vol. 27, p. 1634, Act of Apr. 27, 1904, vol. 33, p. 852, to amend and ratify agreement of Aug. 14, 1899. Under act Feb. 3, 1887 (24 Stat., 388), and act Feb. 28, 1891 (26 Stat., 794), and Executive order, June 8, 1901 (modifying Executive order of Mar. 25, 1901), 482,584 acres have been allotted to 2,453 Indians, and 1,822.61 acres reserved for administration, church, and cemetery purposes, leaving unallotted and unreserved 1,832,109 acres; 14,711.96 acres on ceded part have been allotted to 81 Indians. (See L. B. 743, p. 50; 852, p. 160, and 966, p. 416.) 37 Indians (Schedule A) have been allotted 7,429.55 acres under acts of Apr. 11, 1882 (22 Stat., 42), Feb. 8, 1887 (24 Stat., 389), and amendments thereto. President's proclamation, May 24, 1906 (34 Stat., 3200).
Fort Belknap(Under Fort Belknap School.) Tribes: Grosventre and Assiniboin.	2 497,600	Treaty of Oct. 17, 1855, vol. 11, p. 657; unratified treaties of July 18, 1866, and of July 13 and 15 and 8ept. 1, 1868; Executive orders, July 5, 1873, and Aug. 19, 1874; act of Apr. 15, 1874, vol. 18, p. 28; Executive orders, Apr. 13, 1876, and July 13, 1890, and
Fort Peck. (Under Fort Peck School.) Tribes: Assiniboln, Brulé Santee, Teton, Hunk- para, and Yanktonai Bloux.		by Congress May 1, 1888, vol. 25, p. 124; agreement made Oct. 9, 1895, approved by act of June 10, 1896, vol. 29, p. 350. Treaty of Oct. 17, 1855, vol. 11, p. 687; unratified treatles of July 18, 1866, and of July 13 and 15 and of Sept. 1, 1868; Executive orders, July 5, 1873, and Aug. 19, 1874, act of Apr. 15, 1874, vol. 18, p. 28; Executive orders, Apr. 13, 1875, and July 13, 1880; and agreement made Dec. 28, 1886, approved by Congress May 1, 1888, vol. 25, p. 113, act May 30, 1998 (35 Stat., 558), 2,032 Indians allotted 724,695.77 acres; 1,225,849 acres surplus land opened to settlement and entry by President's proclamation July 25, 1913. (See 42 L. D. 264.) 1,032.84 acres reserved for town site, religious, and administrative purposes. Act Aug. 1, 1914 (38 Stat. 593), allotments to children. 126,054 acres allotted to 438 children, approved Nov. 13, 1917. Act Feb. 26, 1917 (Pub. 355.) Sale to Great Northern R. R., and President's proclamation Mar. 21, 1917, rel. homestead entries on lands classified
Flathead (Under Flathead School.) Tribes: Bitter Root, Car- los Band, Flathead, Kutenai, Lower Kalis- pel, and Pend d'Oreille.		as coal. Treaty of July 16, 1855, vol. 12, p. 975. Under acts of Apr. 23, 1904 (33 Stats., 302), Feb. 8, 1887 (24 Stats., 388), and Feb. 28, 1891 (26 Stats., 794), 2,431 Indians have been allotted 227, 113 acres, and under act of Apr. 23, 1904, 2,524.70 acres have been reserved for tribal uses, and under act of Apr. 23, 1904, as amended by act of Mar. 3, 1906 (33 Stats., 1004-1080), 6,774.92 acres have been reserved for agency purposes, 18,521.35 acres reserved for Bison Range under acts of May 23, 1908 (35 Stats., 277). See 51019-1908. May 22, 1909, proclamation issued by President opening surplus lands. Act Mar. 3, 1909 (35 Stats., 795). 45,714 acres reserved for power and reservoir sites., act Apr. 12, 1910 (36 Stats., 835). Executive order Jan. 14, 1913. Act June 25, 1910 (36 Stats., 863).
Northern Cheyenne. (Under Tongue River School.) Tribe: Northern Chey- enne.	² 489, 500	Executive orders, Nov. 26, 1884, and Mar. 19, 1900, act of Mar. 3, 1903, vol. 32, p. 1000.
enne. Rocky Boy	56, 038	Part of Fort Assinniboine abandoned military reservation. Reserved by act Sept. 7, 1916 (39 Stat., 739), amending act of Feb. 11, 1915 (38 Stat., 807).
Total	8, 480, 073	

TABLE 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
NEBRASKA.	Acres.	
Niobrara. (Under Yankton School, S. Dak.) Tribe: Santee Sioux.		Act of Mar. 3, 1863, vol. 12, p. 819, 4th paragraph, art. 6 treaty of Apr. 29, 1868, vol. 15, p. 637; Executive orders Feb. 27, July 20, 1866, Nov. 16, 1867, Aug. 31, 1869, Dec. 31 1873, and Feb. 9, 1885. 33,515.92 acres selected as home steads, 38,951.71 acres selected as allotments, and 1,06; acres selected for agency, school, and mission purposes; un ratified agreement of Oct. 17, 1882. (For modification, see sundry civil appropriation act approved Mar. 3, 1883, vol. 22, p. 624. For text, see misc. Indian doc., vol. 14, p. 305. Act of Apr. 30, 1888, vol. 25, p. 94, not accepted. Executive
Omaha(Under Omaha Agency.) Tribe: Omaha.	4,420	Act of Apr. 30, 1888, vol. 25, p. 94, not accepted. Executive order Apr. 29, 1916. Treaty of Mar. 16, 1854, vol. 10, p. 1043; selection by Indians with President's approval, May 11, 1855; treaty of Mar. 6 1865, vol. 14, p. 667; acts of June 10, 1872, vol. 17, p. 391, and of June 22, 1874, vol. 18, p. 170; deed to Winnebago Indians dated July 31, 1874; act of Aug. 7, 1882, vol. 22, p. 341; act of Mar. 3, 1893 (27 Stats., p. 612); 130,602 acres allotted to 1,460 Indians; the residue, 4,420 acres, unallotted; act May 6, 1910 (36 Stat., 348), taxation; act May 11, 1912 (37 Stats., 111), sale of surplus land.
Ponca. (Under Yankton School, S. Dak.) Tribe: Ponca.		Treaty of Mar. 12, 1858, vol. 12, p. 997, and supplemental treaty, Mar. 10, 1865, vol. 14, p. 675; act of Mar. 2, 1889, sec. 13, vol. 25, p. 892. 27,236 acres allotted to 168 Indians; 168 acres reserved and occupied by agency and school buildings. (See letter book 205, p. 339; also, President's proclamation, Oct. 23, 1890, vol. 26, p. 1859.) Executive order, Jan. 24, 1882.
Sioux (additional) (Under Pine Ridge School.) Tribe: Oglala Sloux.	640	
Winnebago (Under Winnebago Agency.) Tribe: Winnebago.	1,098	Act of Feb. 21, 1863, vol. 12, p. 658; treaty of Mar. 8, 1865, vol. 14, p. 671; act of June 22, 1874, vol. 18, p. 170; deed from Omaha Indians, dated July 31, 1874. (See vol. 6, Indian deeds, p. 215.) 122,374.20 acres allotted to 1,559 Indians; 480 acres reserved for agency, etc.; 610.10 acres sold; act July 4, 1888; the residue, 1,098 acres, unallotted; act May 6, 1910 (36
Total	6,158	Stat., 348), taxation.
Nevada.		
Duck Valley (Under Western Shoshone School.) Tribes: Paiute and West-	1 321,920	Executive orders, Apr. 16, 1877, May 4, 1886, and July 1, 1910.
ern Shoshoni. Moapa River	523	Executive orders, Mar. 12, 1873, and Feb. 12, 1874; act of Mar. 13, 1875, vol. 18, p. 445; selection approved by Secretary of the Interior, July 3, 1875; Executive orders of June 28, 1875, July 3, 1875, July 31, 1903, Oct. 28, 1912, and Nov. 26, 1912, 604.52 acres of irrigable land allotted to 117 Indians under
Paiute. (Under Fallon School.)	960	72 sections (4,640 acres) reserved under second form with- drawal, reclammation act, June 17, 1902 (32 Stats., 388), for reallotment to Indians; 3,730 acres have been allotted to 369 Paints Indians and 10 acres reserved for school purposes
Palute and Shoshone scattered bands.	280	(see 76082-1907); 960 acres unallotted and unreserved. Executive order, Sept. 16, 1912, setting aside 120 acres for allotment purposes; 160 acres added by Executive order Feb. 8, 1913.
Pyramid Lake	322,000	Executive order, Mar. 23, 1874; act July 1, 1898 (30 Stats., 594). (See sec. 26, Indian appropriation act approved Apr. 21, 1904, vol. 33, p. 225.) Executive order Sept. 4, 1913. creating bird reserve out of Anaho Island.
Summit Lake, Paiute and Sho-	5,025	Executive order, Jan. 14, 1913, withdrawing from settlement
shone. Walker River	75,204	107 use of Faulte-Sidenone 5,025,98 acres. Executive order, Mar. 19, 1874; joint resolution of June 19, 1902, vol. 32, p. 744; act of May 27, 1902 (82 Stats., pp. 245, 280); act of Mar. 3, 1908, vol. 32, pp. 982-997; act of June 21, 1906, vol. 34, p. 325; proclamation of President, Sept. 26, 1906, opening ceded part to settlement. It contained 283 005 34 acres. Allofted to 496 Indians 9 278 acres.
maarur a qaad waa		reserved for agency and school, 80 acres; reserved for cemetery, 40 acres; reserved for grazing, 87,848.29 acres; reserved for church purposes, 160 acres. (L. B., 885, p. 187.) 34,000 acres
Winnemucca and Battle Mountain bands of Shoshone.	840	for use of Paiute-Shoshone 5,025.88 acres. Executive order, Mar. 19, 1874; joint resolution of June 19, 1902, vol. 32, p. 744; act of May 27, 1902 (32 Stats., pp. 245, 260); act of Mar. 3, 1908, vol. 32, pp. 982-997; act of June 21, 1906, vol. 34, p. 325; proclamation of President, Sept. 26, 1908. opening ceded part to settlement. It contained 268,005.84 acres. Allotted to 496 Indians, 9,878 acres; reserved for agency and school, 80 acres; reserved for cemetery, 40 acres; reserved for grazing, 37,848.29 acres; reserved for timber, 3,355.62 acres; reserved for church purposes, 160 acres. (L. B., 885, p. 187.) 34,000 acres added to reserve by Executive order Mar. 15, 1918. Executive order, June 18, 1917, setting aside 840 acres of public domain for 2 bands of homeless Indians.

TABLE 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
NEW MEXICO. Jicarilla Apache(Under Jicarilla School.) Tribe: Jicarilla Apache.	A cres. 407, 300	Executive orders, Mar. 25, 1874, July 18, 1878, Sept. 21, 1890, May 15, 1884, and Feb. 11, 1887; 129,313.35 acres allotted to 845 Indians and 280. 44 acres reserved for mission, school, and agency purposes. (L. B. 335, p. 323.) Executive orders of Nov. 11, 1907, and Jan. 28, 1908. The above-mentioned 845 allotments have been canceled; reallotments have been made under the act of Mar. 1, 1907 (34 Stat. L., 1413). (See 64513-1909.) (Allotments to 797 Indians covering 364,294 acres approved Aug. 28, 1909.) Executive orders, May 29, 1873, Feb. 2, 1874, Oct. 20, 1875, May 19, 1882, and Mar. 24, 1883. (See 25961, 49880, 75166, 75469-1908, and 14203, 26543-1909 and Senate bill 5602, 60th
Mescalero Apache	474, 240 49, 244	Executive orders, May 29, 1873, Feb. 2, 1874, Oct. 20, 1875, May 19, 1882, and Mar. 24, 1883. (See 25061, 48680, 75169, 75469-1908, and 14203, 26543-1909 and Senate bill 5602, 60th Cong., 1st sess.) Executive order, Jan. 15, 1917, setting aside 49,244 acres for
Navajo. Pueblo: (Under Santa Fe and Albuquerque Schools.) Tribe: Pueblo—		Navajo and other Indians.
Jemez. Acoma San Juan. Picuris. San Felipe. Cochiti. Santo Domingo. Taos. Santa Clara Tesuque. San Idefonso. Pojoaque. Sia. San Dia. Isleta. Nambe. Laguna withdrawais. Santa Ana Zufii. (Under Zufii School.) Tribe: Zufii Pueblo.	1 34, 767 1 24, 256 1 92, 398 1 17, 361 1 49, 369 1 17, 471 1 17, 293 1 13, 520 1 17, 515 1 24, 187 1 10, 080	Confirmed by United States patents in 1864, under old Spanish grants; acts of Dec. 22, 1858, vol. 11, p. 374, and June 21, 1860, vol. 12, p. 71. (See General Land Office Report for 1876, p. 242, and for 1880, p. 683.) See Executive orders of June 13 and Sept. 4, 1902, setting apart additional lands for San Felipe and Nambe Pueblos, and Executive order of July 29, 1905, setting apart additional lands for Santa Clara Pueblo. (See 6060-1905.) Approximately 32,000 acres added. Area original Santa Clara Pueblo, 17,368,32. Executive orders, Dec. 19, 1906, Sept. 1, 1911, and Oct. 4, 1915, withdrawing 23,900 acres for Jemes Indians. Area of original Spanish grant, 17,510 acres. Executive order, July 1, 1910, 28,800 acres. Area of Pueblo proper, 125,225. (See 55714-1910.) Total area Pueblos, including Zufit and Executive order Mar. 21, 1917, setting aside
Total	2, 092, 658	515 by B26644176 46641 61 1101. 40, 1911.
NEW YORK. Alleghany	* 30, 469	Treaties of Sept. 15, 1797, vol. 7, p. 601, and of May 20, 1842, vol. 7, p. 587.
Cattarangus. (Under New York Agency.) Tribes: Cayuga, Onondaga, and Seneca.	³ 21, 680	Treaties of Sept. 15, 1797, vol. 7, p. 601; June 30, 1802, vol. 7, p. 79, and of May 20, 1842, vol. 7, p. 587. (See Ann. Rept., 1877, p. 164.)
Oil Spring	.º 640	By arrangement with the State of New York. (See Ann. Rept., 1877, p. 186.) Seneca agreement of Jan. 3, 1893, ratified by act of Feb. 20, 1893, vol. 27, p. 470; act of June 7, 1897, vol. 30, p. 89.
Oneida. (Under New York Agency.) Tribe: Oneida.	* 350	Treaty of Nov. 11, 1794, vol. 7, p. 44, and arrangement with the State of New York. (See Ann. Rept., 1877, p. 168.)
Onondaga. (Under New York Agency.) Tribes: Oneida, Onondaga, and St. Regis.	6, 100	Do.
St. Regis. (Under New York Agency.) Tribe: St. Regis.	14, 640	Treaty of May 13, 1796, vol. 7, p. 55. (See Ann. Rept., 1877, p. 188.) They hold about 24,250 acres in Canada.
Tonswanda (Under New York Agancy.) Tribes: Cayuga and Tonawanda Bands of Sensoa. Tuscarora (Under New York Agancy.) Tribes: Onondaga and Tuscarora.	* 7, 549 6, 249	Treaties of Sept. 15, 1797, vol. 7, p. 601, and Nov. 5, 1857, vol. 12, p. 991; purchased by the Indians and held in trust by the comptroller of New York; deed dated Feb. 14, 1862. (See also Ann. Rept., 1877, p. 165.) Treaty of Jan. 15, 1828, vol. 7, p. 551, and arrangement (grant and purchase) between the Indians and the Holland Land Co. (See Ann. Rept., 1877, p. 167.)
Total	87,677	
l Outboundaries su	rveyed.	² Partly surveyed. ² Surveyed.

Table 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Acres. Held by deed to Indians under decision of U. S. Circuit for Western District of North Carolina, entered at Nov term, 1874, confirming the award of Rufus Barring others, dated Oct. 23, 1874, and acts of Aug. 14, 1876, p. 139, and Aug. 23, 1894, vol. 28, p. 441, and deeds to I from Johnston and others, dated Oct. 29, 1876, and A 1880. (See also H. Ex. Docs. No. 189, 47th Cong., is and No. 128, 53d Cong., 2d sees.) Now held in fee dians, who are incorporated. Act of Mar. 3, 1903, vol 1000. (See Opinions of Asst. Atty. Gen., Mar. 14, 18 Feb. 3, 1904.) 35,000 acres of the 98,211 acres sold. Total	rember ger and vol. 19, indians .ug. 14, it seas., by In-
NORTH DAKOTA.	
Devile I also	
Devils Lake	Indian 3 acres lovern- 319, to Presi- Trust 1, 1918.
Laws relating to Indian Affairs, Department of In 1833), pp. 317 and 322; Executive orders, Apr. 12, 187	orders or rati- cutive cres in
Yanktonal Sloux. South Darota; unratined agreement of Oct. 17 (For modification see sundry civil appropriation a proved Mar. 3, 1883, vol. 22, p. 624; for text see Misc. Doc., vol. 14, p. 305.) Act of Congress of Apr. 30, 1885, p. 94, not accepted. Act of Congress, Mar. 2, 189, 5, p. 94, not accepted. Act of Congress, Mar. 2, 1825, p. 988. President's proclamation of Feb. 10, 1890, p. 1854. Under acts Mar. 2, 1899, supra, Mar. 1, 18 Stat. L., 1041), May 29, 1908 (35 Stat. L., 451-460), and 14, 1913 (37 Stat. L., 675), 4,717 Indians have been a 1,388,612 acres. Under President's proclamation of A 1909 (36 Stat. L., 2500), 1,061,500 acres were opened to ment. Remainder of lands opened to settlement by lamation Mar. 15, 1915, as authorized by act Feb. 1 (37 Stat. L., 675, 680). Executive orders Dec. 21, 1882, Mar. 29 and June 3 Agreement made Oct. 2, 1892, amended by Indian priation act approved and ratified Apr. 21, 1904, vp. 194. 48,820 acres allotted to 326 Indians and 18 reserved for church and school purposes under the named act. Allotments to 2,091 members of this by public domain aggregating 399,817.52 acres have be proved.	y proc- 4, 1913 8, 1884. appro- yol. 33, 6 acres above- and on
Total	

Surveyed.

Table 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
OKLAHOMA.	Acres.	
Apache (Under Klowa School.)		Formerly Fort Sill. (See Executive order Feb. 26, 1897.) Act Mar. 3, 1901 (31 Stat., 1173); act June 28, 1902 (32 Stat., 467). Ex. Doc. No. 117, 49th Cong., 2d sess., act Aug. 24, 1912 (37 Stat., 534); act June 30, 1913 (38 Stat., 92). Lands to be purchased for those members of this band, some 80 in number, who elected to remain in Okishorna.
Cherokee. (Under superintendent Five Civilized Tribes.)	30	1912 (37 Stat., 534); act June 30, 1913 (38 Stat., 92). Lands to be purchased for those members of this band, some 80 in number, who elected to remain in Oklahoma. Treaty with Western Cherokees at city of Washington, May 6, 1823 (7 Stat., 311) as amended by the treaty at Fort Gibson, of Feb. 14, 1833 (7 Stat., 414); referred to in treaty with Cherokees at New Echota, Ga., Dec. 29, 1835 (7 Stat., 478). July 19, 1866 (14 Stat., 729). Agreement of July 1, 1902 (32 Stat., 716). Approximately, 41, 324 Cherokees, including 4,919 freedmen, were allotted an average of 110 acress, 46 acres of which was a homestead to be nontaxable while held by the original allottee. Total acreage allotted 4,346,173; sold, 50,985; remaining unsold, 30. Agreement of Dec. 19, 1891; ratified sec. 10 by act of Mar. 3, 1893 (27 Stat., 640), unoccupied part of Cherokee Outlet, not included in Territory of Oklahoma (26 Stat., 81). et al. Indians allotted 4,949.45 acres under act of Mar. 3, 1893. Executive order Aug. 10, 1896; unratified agreement with Wichita, Caddo, and others, Oct. 19, 1872. (See Ann. Rept., 1872, p. 101.) Executive orders of Apr. 18, 1882, and Jan. 17, 1883, relative to Fort Supply Military Reserve (relinquished for disposal under act of Congress of July 5, 1894, by authority of Executive order of Nov. 5, 1894; see General Land Office Report, 1899, p. 158). Executive order of July 17, 1883, relative to Fort Reno Military Reserve Agreement made October, 1890, and ratified and confirmed in Indian appropriation act approved Mar. 3, 1891, vol. 26, pp. 1022-1026. 528.789 acres allotted to 5.331 Indians.
Cherekes Outlet		Agreement of Dec. 19, 1891; ratified sec. 10 by act of Mar. 8, 1893 (27 Stat., 640), unoccupied part of Cherokee Outlet, not included in Territory of Oklahoma (26 Stat., 81). e2 Indians allotted 4,949.45 acres under act of Mar. 3, 1893.
Chryenne and Arapabo. (Under Cheyenne and Arapaba, Cantonnent, and Seger Schools.) Tribes: Southern Arapabo and Northern and Southern Cheyenne.		Wichita, Caddo, and others, Oct. 19, 1872. (See Ann. Rept., 1872, p. 101.) Executive orders of Apr. 18, 1882, and Jan. 17, 1883, relative to Fort Supply Military Reserve (relinquished for disposal under act of Congress of July 5, 1894, by authority of Executive order of Nov. 5, 1894; see General Land Office Report, 1899, p. 189). Executive order of July 17, 1883. relative to Fort Reno Military Reserve of July 17, 1883. relative to Fort Reno Military Reserve.
		231,838.55 acres for Oklahoma school lands; 32,343.93 acres reserved for military, agency, mission, etc., purposes; the residue, 3,500,562.05 acres, opened to settlement. (See Pres. proc. Apr. 12, 1892, vol. 27, p. 1018.) Executive order, July 12, 1895. President's proclamation of Aug. 12, 1903, vol. 33, p. 2317. Act of June 17, 1910 (38 Stat., 533), 57,837—30. The procedure of the President's proclamation of Aug. 12, 1908.
Chicksow (Under superintendent Five Civilized Tribes, Musko- gee, Okla.)	10	agency and school purposes. Treaty of June 22, 1855, vol. 11, p. 611; agreement of Apr. 23, 1897, ratified by act of June 28, 1898, vol. 30, p. 506; act of July 1, 1902, vol. 32, p. 641, ratifying agreement of Mar. 21, 1902; act of Apr. 21, 1904, vol. 33, p. 209; act of Apr. 28, 1904, vol. 33, p. 444. 10,966 Indians have been allotted 3,800,350 acres: sold, 870,095, remaining unsold, 10 acres.
Canctaw (Under superintendent Five Civilized Tribes, Musko- gee, Okla.)	14, 460	ocres; sold, 870,095, remaining unsold, 10 acres. Treaty of June 22, 1855, vol. 11, p. 611. Same as Chickasaw. Approximately 26,828 Indians have been allotted 4,291,036 acres; sold, 2,667,210 acres; unsold, 14,460 acres. There remains unsold also the coal and asphalt deposits within the segregated coal and asphalt area of the Chockaw and Chickasaw Nations.
Creek (Under superintendent Five Civilized Tribes, Musko- gee, Okla.)	852	Treaties of Feb. 14, 1883, vol. 7, p. 417, and June 14, 1886, vol. 14, p. 785, and the deficiency appropriation act of Aug. 5, 1882, vol. 22, p. 265. (See Ann. Rept. 1882, p. 1v.) Agreement of Jan. 19, 1889, ratified by the act of Mar. 1, 1889, vol. 25, p. 757; President's proclamation, Mar. 23, 1889, vol. 26, p. 1544; agreement of Sept. 27, 1897, ratified by act of June 28, 1888, vol. 30, p. 514; agreement of Mar. 8, 1900, ratified by act of Mar. 1, 1901, vol. 31, p. 861; President's proclamation of June 25, 1901, vol. 32, p. 1971; supplementagreement of June 30, 1902, vol. 32, p. 500; President's proclamation of Aug. 8, 1902, vol. 32, p. 2021. (See act of May. 27, 1902, vol. 32, p. 288; act of Apr. 21, 1904, vol. 33, p. 204.)
(Under Sec and Fox School.) Tribes: Iowa and Tonka- wa.		acres: sold, 65,612 acres; remaining unsold, 352 acres. Executive order, Aug. 15, 1883; agreement May 20, 1890, ratified by act of Feb. 13, 1891, vol. 26, p. 753. 8,605 acres allotted to 108 Indians; 20 acres held in common for church, school, etc.; the residue opened to settlement. Proclamation of President Sept. 18, 1891, vol 27, p. 999. (See Ann. Rept. 1891, p. 677, and letter book 222, p. 384.)
Kansa or Kaw (Under Ponca School.) Tribe: Kansa or Kaw.		Act of June 5, 1872, vol. 17, p. 228. 260 acres reserved for cemetery, school, and town site. Remainder, 99,844 acres, allotted to 247 Indians; act of July 1, 1902, vol. 32, p. 636, ratifying agreement, not dated. Act Mar. 3, 1909. (35 Stat., 778.)

Table 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
OKLAHOMA—continued.	Acres.	
Kickapoo (Under Shawnee School.) Tribe: Mexican Kickapoo.		Executive order, Aug. 15, 1883; agreement June 21, 1891; ratified by act of Mar. 3, 1893, vol. 27, p. 557. 22,650 acres allotted to 280 Indians; 479.72 acres reserved for mission, agency, and school purposes; residue opened to settlement by proclamation of the President May 18, 1895, vol. 29, p. 868, act of Mar. 3, 1903, vol. 32, p. 1001. June 21, 1906. (34)
Klows and Comanche		Stat., 362.) Treaty of Oct. 21, 1867, vol. 15, pp. 581 and 589; agreement made Oct. 6, 1892; ratified by act of June 6, 1900, vol. 31, p. 676, ceding 2,488,883 acres, of which 445,000 acres have been allotted to 3,444 Indians; 11,972 acres reserved for agency, school, religious, and other purposes. The residue, 2,033,583 acres, opened to settlement (letter books 486, p. 440; 488, p. 478). President's proclamation of July 4, 1901, vol. 32, p. 1975; June 23, 1902, vol. 32, p. 2007; Sept. 4, 1902, vol. 32, p. 2026; and Mar. 29, 1994, vol. 33, p. 2240. Of the 480,000 acres grazing land set apart under act of June 6, 1900, 1,841.92 acres were reserved for town sites under act to 513 Indians under act of June 5, 1900, 1931 Indians under act of June 5, 1900, 1931 Indians under act of June 5, 1931 and 480 acres allotted to 3 Indians under act of June 5, as amended by act Mar. 1, 1907 (34 Stat. L., 1018). The General Land Office reports the sale and entry of approximately 401,465.92 acres under act of June 5, and of 21,231.75 acres under act of June 25, 1901 (36 Stat. L, 2019). (See 75344-1908.) Under act May 29, 1908 (35 Stat., 471), and act June 25, 1910 (36 Stat., 861), 20,498 acres allotted to 199 Indians. Sale of unused, unreserved laptis, act Mar. 1, 1911 (36 Stat., 1090). Act Mar. 4, 1915, Department of Agriculture experiment station. Sale of school and agency reserves, act June 30, 1913 (38 Stat., 92).
(Under Klowa School.)		reserves, act June 30, 1913 (38 Stat., 92). Formerly prisoners of war, remnants and descendants of Chief Geronimo's Band. 6,149 acres of inherited Kiowa Comanche, and Apache lands were purchased by the United States for reallotment to 81 Indians and 8 w.ites of this band, who elected to remain in Oklahoma. (187 of the band removed to Mescalero. See Ann. Rept. 1913.) These lands were purchased under the acts of June 25, 1910 (36 Stat., 355), Aug. 24, 1912 (37 Stat., 534), appropriating \$200,000; June 30, 1913 (38 Stat., 94), appropriating \$200,000; and Aug. 1, 1914 (38 Stat., 587). See Executive order Feb. 26, 1897, act Mar. 3, 1901 (31 Stat., 1173); act June 28, 1902 (32 Stat., 467); Ex oc. No. 117, 49th Cong., 24 sees.
Modoc. (Under Seneca School.) Tribe: Modoc.		Agreement with Eastern Shawness made June 23, 1874 (see Ann. Rept. 1882, p. 271), and confirmed in Indian appropriation act approved Mar. 3, 1875, vol. 18, p. 447. Lands all allotted—3,966 acres allotted to 68 Indians, 8 acres reserved for church and cemetery purposes, 2 acres for school and 24 acres for timber. (Letter book 220, p. 102). Act Mar. 3, 1909. (35 Stat., 752.) Ex. order Sept. 14, 1916, extending trust period 10 years with exception of 12 allottees. Act of May 27, 1878, vol. 20, p. 34. (See Ann. Rept. for 1822, p. LXE.) (See deed dated June 14, 1883, from Charolese, 1278, 12 allotte peeds at 472. (See deed from Not peeds at 1821).
Oakland		Act of May 27, 1878, vol. 20, p. 84. (See Ann. Rept. for 1882,
(Under Ponca School.) Tribes: Tonkawa and Lipan. Osage (Under Osage School.) Tribes: Great and Little Osage.		Act of May 27, 1878, vol. 20, p. 34. (See Ann. Rept. for 1822, p. 12m.) (See deed dated June 14, 1833, from Charolises, vol. 6, Indian Deeds, p. 476.) (See deed from Nez Percs, May 22, 1835, vol. 6, Indian Deeds, p. 504.) 11,456 acres allotted to 73 Indians; 160.50 acres reserved for Government and school purposes. The residue, 79,276.60 acres, opened to settlement. (Letter book 257, p. 240.) Agreement made Oct. 21,1891, ratified by Indian appropriation actapproved Mar. 3, 1893, vol. 27, p. 644. (For text, see Ann. Rept., 1833, p. 524.) Trust period extended 10 years on 27 allottments. Executive order, May 24, 1918. Article 16, Cherokee treaty of July 19, 1886, vol. 14, p. 804; order of Secretary of the Interior, Mar. 27, 1871; act of June 3, 1872, vol. 17, p. 228. (See deed dated June 14, 1833, from Cherokee, vol. 6, Indian Deeds, p. 482.) (See act of June 28, 1906 (34 Stats., 539), act of Mar. 3, 1909 (35 Stats., 787), and Public Resolution No. 51, approved Feb. 28, 1909.) 2,230 Indians have been allotted 1,665,134.31 acres (3 selections). Since July 1, 1909, these 2,230 Indians have been allotted 1,465,330 acres from surplus lands, and 5,178.53 acres have been reserved for church, town-site, and railroad purpeses. Act Mar. 3, 1909 (35 Stat., 778). Act Apr. 18, 1912 (37 Stat., 86), and Executive order June 1, 1914, rates of royalty on all.

TABLE 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
OKLAHOMA—continued.	Acres.	
Otoe (Under Otoe School.) Tribes: Otoe and Missouri.		Act of Mar. 3, 1881, vol. 21, p. 381; order of the Secretary of the Interior, June 25, 1881. (See deed dated June 14, 1883, from Cherokee, vol. 6, Indian Deeds, p. 479. Under acts of Feb. 8, 1887 (24 Stats., 388), Feb. 28, 1891 (25 Stats., 794), and Apr. 21, 1904 (33 Stats., 189), 128,251 acres were allotted to 514 Indians (835 allotments—see letter book 929, p. 320), 720 acres were reserved for agency, school, church, and cemetry purposes, and 640 acres set aside for tribal uses. Also act June 22, 1910 (36 Stat., 580-581).
Ottawa. (Under Seneca School.) Tribe: Ottawa of Blanchards Fork and Roche de Boeuf.	•••••	Treaty of Feb. 23, 1867, vol. 15, p. 513; 12,995 acres were allotted to 160 Indians; 557.95 acres were authorized to be sold by act of Mar. 3, 1891 (vol. 26, p. 989). The residue, 1,587.25 acres sold. Letter book 229, p. 115, and act Mar. 3, 1909 (35 Stat., 752).
Pawnee (Under Pawnee School.) Tribe: Pawnee.		Act of Apr. 10, 1876, vol. 19, p. 29. Of this, 230,014 acres are Cherokee and 53,006 acres are Creeklands. (See deed dated June 14, 1883, from Cherokee, vol. 6, Indian Deeds, p. 470.) 112,701 acres allotted to \$20 Indians; 840 acres were reserved for school, agency, and cemetery purposes; the residue, 169,320 acres, opened te settlement. (Letter books 261, p. 388, and 263, p. 5.) Agreement made Nov. 23, 1892, ratified by act of Mar. 3, 1893, vol. 27, p. 644. (Fer text see Ann. Rept., 1893, p. 526.) Trust period extended 10 years. Executive orler, Mar. 2, 1918.
Peorla. (Under Seneca School.) Tribes: Kaskaskia, Mi- ami, Peorla, Planka- shaw, and Wea.		1 Treaty of Feb. 23, 1807, Vol. 15, p. 513. 43,334 acres allotted to 218 Indians. The residue, 6,313.27 acres, sold under act of May 27, 1902 (32 Stats., 245).
Ponca. (Under Ponca School.) Tribe: Ponca.	1387	Acts of Aug. 15, 1876, vol. 19, p. 192; Mar. 3, 1877, vol. 19, p. 287; May 27, 1878, vol. 20, p. 76; and Mar. 3, 1881, vol. 21, p. 422. (See deed dated June 14, 1883, from Cherokee, vol. 6, Indian Deeds, p. 473.) There have been allotted to 782 Indians 100,734 acres, and reserved for agency, school, mission, and cemetery purposes 523.56 acres, leaving unallotted and unreserved 387 acres. (Letter books 302, p. 311, and 813, p. 401.) Indian appropriation act approved Apr. 21, 1904, vol. 33, p. 217. (See 35067-1915.) Treaty of Feb. 27, 1867, vol. 15, p. 531; act of May 23, 1872, vol. 17, p. 50. (272, 273, acres one Create coded lands: 356.55.)
Potawatomi. (Under Shawnee School.) Tribes: Absentee Shawnee and citizen Potawatomi.		acres are Seminole lands.) Agreements with citizen Pot- awatomi June 25 and absentee Shawnees June 28, 1890 ratified and confirmed in the Indian appropriation act of Mar. 3, 1891, vol. 26, pp. 1016-1021. 215,899.42 acres allotted to 1,490 Potawatomi, and 70,791.47 acres allotted to 563 absentee Shawnees, and 510.63 acres reserved for Govern- ment purposes; the residue opened to settlement by the President's proclamation of Sept. 18, 1891, vol. 27, p. 989. (See letter book 222, pp. 442, 444, and Ann. Rept. for 1891, p. 677.) Executive order Nov. 24, 1916, and Jan. 15, 1917, extending trust period 10 years with exception of 15 ab-
Quapaw. (Under Seneca School.) Tribe: Quapaw.		sentee Shawnees, 85 ctitsen Potawatomi. Treaties of May 13, 1833, vol. 7, p. 424, and of Feb. 23, 1867, vol. 15, p. 513. 56,245.21 acres allotted to 248 Indians, 400 acres reserved for school and 40 acres for church purposes. (Letter book 335, p. 326.) Agreement of Mar. 23, 1893, ratified in Indian appropriation act approved Mar. 2, 1895, vol. 28, p. 907. Agreement of Jan. 2, 1899, ratified in Indian appropriation act approved Mar. 3, 1901, vol. 31, p. 1007. Act of Mar. 3, 1903, vol. 32, p. 997. Treaty of Feb. 18, 1867, vol. 15, p. 495; agreement June 12, 1890; ratified by act of Feb. 13, 1891, vol. 26, p. 749. 67,683,46 acres allotted to 481 Indians, and 800 acres reserved for
Sauk and Fox (Under Sac and Fox School.) Tribee: Ottawa, Sauk and Fox of the Mississippi.		Treaty of Feb. 18, 1867, vol. 18, p. 495; agreement June 12, 1890; ratified by act of Feb. 13, 1891, vol. 28, p. 749. 87,683.46 acres allotted to 548 Indians, and 800 scree reserved for school and agency purposes; the residue opened to settlement by the President's proclamation Sept. 18, 1891, vol. 27, p. 989. (See letter book 222, p. 169, and Ann. Rept. for 1891, p. 677.) Trust period extended for 10 years by Executive order of Mar. 27, 1896; again by Executive order of Aug. 28, 1906; again by Executive order of Aug. 1, 1918, with exception of 55 allottees.

1 Surveyed.

Table 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treatics, laws, or other authorities relating to reserves.
OKLAHOMA—continued. Seminole (Under superintendent Five Civilized Tribes, Muskogee, Okla.)	Аста. 122	Treaties of Mar. 21, 1866, vol. 14, p. 755. (See Creek agreement of Feb. 14, 1881, Ann. Rept. 1882, p. 54, and deficiency act of Aug. 5, 1882, vol. 22, p. 265.) Agreement of Mar. 16, 1889. (See Indian appropriation act approved Mar. 2, 1889.) Agreement recorded in the treaty book, vol. 3, p. 35; agreement made Dec. 16, 1897, ratified by the act of July 1, 1898, vol. 30, p. 567; agreement of Oct. 7, 1899, ratified by act of June 2, 1900, vol. 31, p. 250. Approximately 3,127 Indians have been allotted 365,852 acres; sold, 4,263 acres; remaining unsold. 122 acres.
Seneca		of July 1, 1898, vol. 30, p. 567; agreement of Oct. 7, 1899, ratified by act of June 2, 1900, vol. 31, p. 250. Approximately 3,127 Indians have been allotted 365,852 acres; sold, 4,263 acres; remaining unsold, 122 acres. Treaties of Feb. 28, 1831, vol. 7, p. 348; of Dec. 29, 1832, vol. 7, p. 411, and of Feb. 23, 1867, vol. 15, p. 513. 41,813 acres allotted to 485 Indians; 104.22 acres reserved for Government, church, and school purposes. Agreement of Dec. 2, 1901, ratified by act of May 27, 1902, vol. 32, p. 262; Executive order Feb. 15, 1916, extending trust period for 10 years, with acceptance of 44 silottees.
Shawnee. (Under Seneca School.) Tribes: Seneca, absentee Shawnee, Mexican Kickapoo.		Treaties of July 20, 1831, vol. 7, p. 351; of Dec. 29, 1832, vol.
Wichita. (Under Kiowa Agency.) Tribes: Ioni, Caddo, Co- manche, Delaware, To- wakoni Waco, and Wichita.		7, p. 411; of Feb. 23, 1867, vol. 15, p. 513, and agreement with Modocs, made June 23, 1874 (see Ann. Rept., 1882 p. 271), confirmed by Congress in Indian appropriation act approved Mar. 2, 1875, vol. 18, p. 447. 12,745 acres allotted to 117 Indians; 86 acres reserved for agency purposes (letter books 208, p. 266, and 233, p. 207); the residue, 2,543 acres, solid (agreement of Dec. 2, 1901, ratified by act of May 27, 1902, vol. 32, p. 282). (See treaty of July 4, 1866, with Delawares, art. 4, vol. 14, p. 794.) Unratified agreement, Oct. 19, 1872. (See Ann. Rept., 1872, p. 101.) Agreement made June 4, 1891, ratified by act of Mar. 2, 1895, vol. 28, p. 395. 152,714 acres allotted to 957 Indians; 4,151 acres reserved for agency, school, religious, and other purposes. The residue, 596,488 acres, opened to settlement (letter book 490, p. 90.) President's proclamation of July 4, 1901, vol. 32, p. 1975. Unoccupied Chickasaw and Choctaw leased lands west of the North Fork of the Red River. Act of May 4, 1896, vol. 29, p. 132. President's proclamation, Mar. 16, 1896, vol. 29, p. 878. Act of June 6, 1900 (31 Stat., 680.) Treaty of Feb. 23, 1867, vol. 15, p. 513. 20,942 acres allotted to 244 Indians, 16 acres to churches, etc., leaving 534.72 acres unallotted (letter book 228, p. 332). Unallotted land sold, act Mar. 3, 1909 (35 Stat., 752). Act Apr. 28, 1904 (33 Stat., 519), allotments on public domain to absentee Wyandot.
Wyandot(Under Seneca School.) Tribe: Wyandot.		the North Fork of the Red River. Act of May 4, 1896, vol. 29, p. 113. President's proclamation, Mar. 16, 1896, vol. 29, p. 878. Act of June 6, 1900 (31 Stat., 680.) Treaty of Feb. 23, 1867, vol. 15, p. 513. 20,942 acres allotted to 244 Indians, 16 acres to churches, etc., leaving 534.72 acres unallotted (letter book 228, p. 332). Unallotted land sold, act Mar. 3, 1909 (35 Stat., 752). Act Apr. 28, 1904 (33 Stat., 519), allotments on public domain to absentee Wyandot.
Total	15, 361	
Grande Ronde. (Under Siletz Agency.) Tribee: Kalapuya, Clackamas, Cow Creek, Lakmiut, Marys River, Molala, Nestuces, Rogue River, Santiam, Shasta, Tumwater, Umpqua, Wapato, and Yamhili.		Treaties of Jan. 22, 1855, vol. 10, p. 1143, and of Dec. 21, 1855, vol. 12, p. 962; Executive order June 30, 1867. 440 sores reserved for Government use and 32,983 acres allotted to 269 Indians. (See letter book 210, p. 328.) Act of Apr. 28, 1904, vol. 33, p. 567, amending and ratifying agreement of June 27, 1901 (33 L. D., 586). Executive order Apr. 29, 1916, extending trust period 10 years with exception of 66 allottees.
Klamath (Under Klamath School.) Tribes: Klamath, Modoc, Paiute, Pit River, Wal- pape, and Yahooskin Band of Snake (Sho- shoni).	1 812, 707	Treaty of Oct. 14, 1864, vol. 16, p. 707. Act June 10, 1896 (29 Stat., 321). Act of May 27, 1902 (32 Stat., 220). 208,278 acres allotted to 1,345 Indians; 6,094.77 acres reserved for agency, school, and church purposes. Indian appropriation act approved Apr. 21, 1904, vol. 33, p. 202; act of Mar. 3, 1905, vol. 33, p. 1033, and act of June 21, 1906 (34 Stat., 367). (See act of Mar. 3, 1909 (35 Stat., L. 752),
Silets	•••••	removal of Modocs in Okishoma to Kismath and allor- ments thereto.) Boundary dispute (see 9881-1911.) Unratified treaty, Aug. 11, 1855; Executive orders Nov. 9, 1855, and Dec. 21, 1865, and act of Mar. 3, 1875, vol. 18, p. 446. Agreement Oct. 31, 1892, ratified by act of Aug. 15, 1894, vol. 28, p. 323. 44,459 acres allotted to 551 Indians. Resi- due, 177,563.66 acres (except 5 sections), ceded to United States. (See letter book 291, p. 258.) President's proclama- tion, May 16, 1895, vol. 29, p. 866. Acts of May 31, 1900, vol. 31, p. 233, and Mar. 3, 1901, vol. 31, p. 1065. Act of May 13, 1910 (36 Stat., 367). Executive order July 19, 1916.

TABLE 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for uts establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
OREGON—continued. Umatilla. (Under Umatilla School.) Tribes: Cayuse, Umatilla, and Wallawalla.	Acres. 174,032	Treaty of June 9, 1855, vol. 12, p. 945, and act of Aug. 5, 1882, vol. 22, p. 297: Mar. 3, 1885, vol. 23, p. 340, and sec. 8 of act of Oct. 17, 1883, vol. 25, p. 559. (See orders Secretary of Interior, Dec. 4, 1888, Ann. Rept., 1891, p. 682.) 82,742 acres allotted to 1,118 Indians, 890 acres reserved for school and mission purposes. (See letter book 255, p. 132.) Act
Warm springs. (Under Warm Springs School.) Tribes: Des Chutes, John Day, Paints, Teneino, Warm Springs, and Wasco.	1 322, 275	and mission purposes. (See letter book 255, p. 132.) Act of July 1, 1902, vol. 32, p. 730; act Mar. 2, 1917 (39 Stat., 909-80), providing for allotments as long as any land is available. Treaty of June 25, 1855, vol. 12, p. 963. 146,529 acres allotted to 968 Indians under the general allotment act of February 8, 1887 (24 Stat., 338), as amended, and 1,195 acres reserved or for church, school, and agency purposes. Boundary dispute: Acts Aug. 19, 1890 (26 Stat., 355); June 6, 1894 (28 Stat., 36), and Mar. 2, 1917 (39 Stat., 969-986).
Total	1, 209, 014	
SOUTH DAKOTA.		•
Crow Creek and Old Winne- bago. (Under Crow Creek School.) Tribes: Lower Yanktonai, Lower Brule, Minicon- jou, and Two Kettle Sloux.		Order of department, July 1, 1863 (see Ann. Rept., 1863, p. 318); treaty of Apr. 29, 1868, vol. 18, p. 635, and Executive order, Feb. 27, 1885 (see President's proclamation of Apr. 17, 1885, annulling Executive order of Feb. 27, 1886; Ann. Rept., 1885, p. 51); act of Mar. 2, 1889, vol. 25, p. 888; President's proclamations, Feb. 10, 1890, vol. 26, p. 1554. There have been allotted to 1,461 indians 272,720 acres, and reserved for agency, school, and religious purposes 1,076,90 acres.
Lake Traverse. (Under Sisseton School.) Tribes: Sisseton and Wah- peton Sioux.		for agency, school, and religious purposes 1,076.90 acres. Treaty of Feb. 19, 1867, vol. 15, p. 505; agreement, Sept. 20, 1872; confirmed in Indian appropriation act approved June 22, 1874, vol. 18, p. 167. (See pp. 328-337, Comp. Indian Laws.) Agreement, Dec. 12, 1889, ratified by act of Mar. 3, 1891, vol. 26, pp. 1035-1038. 308,838 acres allotted to 2,006, Indians, 32,840.25 acres reserved for State school purposes, 1,347.01 acres for church and agency purposes; the residue, 574,678.40 acres, opened to settlement. (See President's proclamation, Apr. 11, 1892, vol. 27, p. 1017.) Trust period extended 10 years, Executive order of Apr. 16, 1914.
Cheyenne River	219, 208	Treaty of Apr. 29, 1868, vol. 15, p. 635, and Executive orders, Jan. 11, Mar. 16, and May 20, 1875, and Nov. 28, 1876; agreement ratified by act of Feb. 28, 1877, vol. 19, p. 254, and Executive orders, Aug. 9, 1879, and Mar. 20, 1884. Unratified agreement of Oct. 17, 1882. (For modification see sundry civil appropriation act approved Mar. 3, 1883, vol. 22, p. 624, for text see Misc. Indian Doc., vol. 14, p. 205.) Act of Apr. 30, 1888, vol. 25, p. 94, not accepted. Act of Mar. 2, 1889, vol. 25, p. 888. President's proclamation of Feb. 10, 1890, vol. 26, p. 1854. See (act of Feb. 20, 1896, vol. 29, p. 10.) President's proclamations of Feb. 7, 1903, vol. 32, p. 2035, and Mar. 30, 1904, vol. 33, p. 2340. 1,052,320.99 acress have been allotted to 3,880 Indians. (See L. B. 828, p. 221.) Act of May 29, 1908 (35 Stat. L., 460). Under President's proclamation of Aug. 19, 1909 (36 Stat., 2500), 1,158,010 acres were opened to settlement, leaving unallotted and unreserved
Lower Brule. (Under Lower Brule School.) Tribes: Lower Brule and Lower Yanktonal Sloux.	24,000	219, 206 acres. Treaty of Apr. 29, 1868, vol. 15, p. 635, and Executive orders, Jan. 11, Mar. 16, and May 20, 1875, and Nov. 28, 1876; agreement ratified by act of Feb. 28, 1877, vol. 19, p. 244, and Executive orders, Aug. 9, 1879, and Mar. 20, 1884. Unratified agreement of Oct. 17, 1882. (For modification see sundry civil appropriation act approved Mar. 3, 1883, vol. 22, p. 624; for text see Misc. Indian Docs., vol. 14, p. 305.) Act of Apr. 30, 1888, vol. 25, p. 94, not accepted. Act of Mar. 2, 1889, vol. 25, p. 888. President's proclamation of Feb. 10, 1890, vol. 26, p. 1554. (See act of Feb. 20, 1896, vol. 29, p. 10.) Agreement made Mar. 1, 1898, ratified by act of Mar. 3, 1899, vol. 30, p. 1362, ceding 120,000 acres to the United States. 202,992 acres allotted to 868 Indians, and 964.06 acres reserved for agency, school, and religious purposes, leaving unallotted and unreserved 24,000 acres. (See letter book 498, p. 336.) (See act of Apr. 21, 1906, 34 Stats., 124 and 1048, and President's proclamations of Aug. 12, 1907, and Sept. 24, 1913.) (Superintendent's report June 11, 1918 [50,169-18]).

Table 8.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
OREGON—continued. Pine Ridge	Acres. 161,565	Treaty of Apr. 29, 1868, vol. 15, p. 635, and Executive orders, Jan. 11, Mar. 16, and May 20, 1875, and Nov. 23, 1876; agreement ratified by act of Feb. 23, 1877, vol. 19, p. 254, and Executive orders, Aug. 9, 1879, and Mar. 20, 1834. Unratified agreement of Oct. 17, 1882. (For modification see sundry civil appropriation act approved Mar. 3, 1883, 22 Stats., 624; for text see Misc. Indian Docs., vol. 14, p. 305.) Act of Apr. 30, 1888 (25 Stats., 94), not accepted. Act of Mar. 2, 1889, vol. 25, p. 888. President's proclamation of Feb. 10, 1890, vol. 26, p. 1854. (See act of Feb. 20, 1896, 29 Stats., 10). A tract of 32,000 acres in Nebraska was set apart by Executive order of Jan. 24, 1882, and was restored to the public domain by Executive order of Jan. 25, 1904; and by Executive order of Feb. 20, 1904, 640 acres of this land was set apart for Indian school purposes and is called the Sioux additional tract. (See Nebraska.) Act of Mar. 2, 1886 (25 Stats., 883), authority of President of July 29, 1904, 2,229,803.81 acres have been allotted to 8,269 Indians and 11,333.83 acres reserved for agency, school, and church purposes, aggregating 886,323.19, leaving unallotted and unreserved 161,565 acres. Allotment under acts of Mar. 2, 1889 (25 Stats. L. 889), Mar. 1,1907 (34 Stat. L., 1048), and May 29, 1908 (35 Stat. L., 461). Act May 27, 1910 (35 Stat. 40), 40,960 acres State school land; 22,344 acres timber reserved. President's proclamation, June 29, 1911 (40 L. D.,
Rosebud. (Under Rosebud School.) Tribes: Loafer, Miniconjou, Northern Oglalla, Two Kettle, Upper Brule, and Wazhazhe Sloux.		reserved. President's proclamation, June 29, 1911 (40 L. D., 17esty of Apr. 29, 1868, vol. 15, p. 635, and Executive orders, Jan. 11, Mar. 16, and May 20, 1875, and Nov. 28, 1876; agreement ratified by act of Feb. 23, 1877, vol. 19, p. 254, and Executive orders, Aug. 9, 1879, and Mar. 20, 1884. Unratified agreement of Oct. 17, 1832. (For modification see sundry civil appropriation act approved Mar. 3, 1833, vol. 22, p. 624; for text see Misc. Ind.an Docs., vol. 14, p. 305.) Act of Apr. 30, 1888, vol. 25, p. 94, not accepted. Act of Mar. 2, 1889, vol. 25, p. 838. President's proclamation of Feb. 10, 1890, vol. 26, p. 154. (See act of Feb. 20, 1896, vol. 29, p. 10.) 1,853,605 acres allotted to 3,495 Sioux Indians, 416,000 acres opened to settlement, 29,392.01 reserved for Government purposes, churches, cemeteries, etc. Agreement made Mar. 10, 1898, ratified by act of Mar. 3, 1899, vol. 30, p. 1304. Act of Apr. 23, 1904, vol. 33, p. 254, ratifying agreement made Sept. 14, 1901. President's proclamation of May 16, 1904, vol. 33, p. 2354. Act ef Mar. 1, 1907 (34 Stat., 148); act Mar. 2, 1907 (34 Stat., 1230); act May 29, 1908 (35 Stat., 2233), opening 338,000 acres in Tripp County. President's proclamation, June 29, 1911 (40 L. D., 164), opening 330,000 acres in Mellette and Washabaugh Counties, 43,520 acres State school land Executive order, July 6, 1912. Treaty of Apr. 19, 1828, vol. 11, p. 744. 288,263 acres allotted to 2,613 Indians and 1,252.89 acres reserved for agency, church, and school purposes. (See letter book 207, p. 1.). Agreement Dec. 31, 1892, ratified by act of Aug. 15, 1894, vol. 29, p. 314. The residue open to settlement. (See President's proclamation, May 16, 1895, vol. 29, p. 865.)
Yankton. (Under Yankton School.) Tribe: Yankton Sioux.		and Washabaugh Counties, 43,520 acres State school land Executive order, July 6, 1912. Treaty of Apr. 19, 1858 vol. 11, p. 744. 268,263 acres allotted to 2,613 Indians and 1,252.89 acres reserved for agency, church, and school purposes. (See letter book 207, p. 1.) Agreement Dec. 31, 1892, ratified by act of Aug. 15, 1894 vol. 28, p. 314. The residue open to settlement. (See President's proclamation, May 16, 1895, vol. 29, p. 365.) Executive order Apr. 20, 1916, extending trust period 10 years, with exception of 162 allottees.
Total	404,771	
Goshute and scattering bands. Palutes. Cedar City and Indian Peak Bands. Panguitch. Shivwits.	34,500 7,000	Executive order, Mar. 23, 1914. Executive order, Aug. 2, 1915, reserving approximately 7,00 acres for use of Cedar City and Indian Peak Bands of Paiutes. 136.52 acres in Garfield County, Utah, purchased Nov. 1, 1903. About I township in Washington County, Utah, withdrawn by departmental order based on office recommendation of Sept. 23, 1991 (L. B., 223, p. 270). Rights of squatters in withdrawal purchased by United States. (See also act of Mar. 3, 1891, 26 Stat., L., 989-1005.) Executive order Apr. 21, 1916, withdrawing 26,880 acres as Shebit or Shiwwits Reservation.

Table 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unallotted).	Treaties, laws, or other authorities relating to reserves.
UTAH—continued. Skull Valley	Acres. 18,640	Reserved by Executive orders of Jan. 17, 1912, Sept. 7, 1917, and Feb. 15, 1919. Oct. 2, 1881, and of June 18, 1872 (29 State
(Under Uintah and Ouray Agency.) Tribes: Gosiute, Pavant, Uinta, Yampa, Grand B.iver Uncompahgre, and White River Ute.		Reserved by Executive orders of Jan. 17, 1912, Sept. 7, 1917, and Feb. 15, 1918. Executive orders, Oct. 3, 1861; act of June 13, 1878 (20 Stats. 165); acts of May 5, 1864, vol. 13, p. 63, and May 24, 1885, vol. 25, p. 187; joint resolution of June 19, 1902, vol. 32, p. 97; Indian appropriation, act approved Apr. 21, 1904, vol. 33, p. 207; President's proclamations of July 14, 1905, setting aside 1,010,000 acres as a forest reserve, 2,100 acres as town sites. 1,004,285 acres opened to homestead entry, 2,140 acres in mining claims; under act May 27, 1902 (33 Stats., 283), 99,407 acres allotted to 1,284 Indians, and 60,161 acres under reclamation, the residue, 179,194.65 acres, unallotted and unreserved. (See letter book 75, p. 383.) Executive order, Aug. 19, 1912, restoring lands of Fort Ducheme Military Reservation to the supervision of Interior Department.
Uncompanere		supervision of Interior Department. Executive order, Jan. 5, 1882. (See act of June 15, 1887, ratifying the agreement of Mar. 6, 1880, vol. 21, p. 199.) 12,540 acres allotted to 83 Indians, remainder of reservation restored to public domain, act of June 7, 1897, vol. 30, p. 62. (Letter book 408, p. 115.) Joint resolution of June 19, 1902, vol. 32, p. 744.
Total	336, 360	•
WASHINGTON.		
Chehalis. (Under Cushman School.) Tribes: Chinook (Tsinuk), Clatsop, and Chehalis.		Order of the Secretary of the Interior, July 8, 1864; Executive order, Oct. 1, 1886. 471 acres set aside for school purposes. The residue, 3,753.63 acres, restored to the public domain for Indian homestead entry. 36 Indians made homestead selections, covering all the land. (See letter book 152, p. 201, and 153, p. 457.
Columbia (Under Colville School.) Tribe: Columbia (Moses Band).		selections, covering all the land. (See letter book 152, p. 201, and 153, p. 45.) Executive orders, Apr. 19, 1879, Mar. 6, 1880, and Feb. 23, 1883. (See Indian appropriation act of July 4, 1884, vol. 23, p. 79.) Agreement made July 7, 1885, ratified by act of July 4, 1884, vol. 23, p. 79. Executive order May 1, 1886: Executive order of Mar. 9, 1894; department orders of Apr. 11, 1894, and Apr. 20, 1894, and Executive order of Jan. 19, 1896. 28,218 acres allotted to 35 Indians (see Executive order of May 21, 1886, and act of Mar. 8, 1906, 34 Stats, 55).
Colville. (Under Colville Agency.) Tribes: Coeur d'Alene, Colville, Kalispel, Okin- agn, Lake Methow, Nespelim, Pend d' Oradile, Sanpoll, and Spokan.		Executive orders, Apr. 9 and July 2, 1872: agreement made July 7, 1883, ratified by act of July 4, 1884, vol. 23, p. 79. Act of July 1, 1892, vol. 27, p. 62. (See acts of Feb. 20, 1898, vol. 29, p. 9, and July 1, 1898, vol. 30, p. 593.) 51,653 acres in morth half allotted to 600 Indians (see letter book 428, p. 100); remainder of north half, estimated at 1,449,268 acres, opened to settlement Oct. 10, 1900, 31 Stats., p. 1963). 240 acres have been reserved for town sites. 2,760.82 acres temporarily withdrawn for town sites. 257,419 acres allotted to 2,469 Indians. The residue, 1,009, 580 acres (estimated), unallotted. Act of Feb. 7, 1903, vol. 32, p. 803. Allotments made under act of Mar. 22, 1906 (34 Stat. L., 80), and act of June 25, 1910 (36 Stat., 863). President's proclamation, opening reservation dated May 3, 1916 (39 Stat., p. 88 Stat., p. 86 Stat.
Hoh River (Under Neah Bay School.) Tribe: Hoh.	4,629	of proclamations), set Aug. 31, 1916 (39 Stat., 672). Executive order, Sept. 11, 1898.
Kalispel (Under Coeur d'Alene Agency, Idaho.)	3,029	Executive order, Mar. 23, 1914.
(Nonreservation; Warm Springs, Oreg.) Lummi		6 townships in Gilliam County, Wash., set saids for allotment selection by about 200 Indians under sec. 4, set Feb. 8, 1887 (24 Stat., 388), as amended. (See 50088-1912.) Treaty of Point Elliott, Jan. 22, 1855, vol. 12, p. 927; Executive order, Nov. 22, 1873. Allotted 12,560.94 acres to 109 Indians; school conducted on 2-acre tract purchased from John Martin.
Makah. (Under Neah Bay School.) Tribes: Makah and Qui- leute.	19,312	Treaty of Neah Bay, Jan. 31, 1856, vol. 12, p. 939; Executive orders, Oct. 26, 1872, Jan. 2 and Oct. 21, 1873. 3,727 acres allotted to 373 Indians. (See letter book 960, 228 and 37679, 1907.)
¹ Partly su	rveyed.	Outboundaries surveyed.

TABLE 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
WASHINGTON—continued.	Acres.	
Muckleshoot		Executive orders, Jan. 20, 1857, and Apr. 9, 1874. 44 Indian have been allotted 3,532.72 acres.
Nisquali (Under Cushman School.) Tribes: Muckleshoot, Nisqualh, Puyallup, Skwawksnamish, Stall- akoom, and 5 others.		Treaty of Medicine Creek, Dec. 26, 1854, vol. 10, p. 1132; Executive order, Jan. 20, 1857. Land all allotted. 4,718 acres to 30 Indians.
Ozette	640	Executive order, Apr. 12, 1898.
Port Madison (Under Tulalip School.) Tribes: Dwamish, Etak- mur, Lummi, Snoho- mish, Sukwamish, and Swiwamish.	1 65	Treaty of Point Elliott, Jan. 22, 1855, vol. 12, p. 927; order of the Scoretary of the Interior, Oct. 21, 1864. 7,219 acres allotted to 51 Indians; the residue, 65 acres, unallotted.
Puyallup. (Under Cushman School.) Tri bes: Muckleshoot, Nisqualli, Puyallup, Skwawksnamish, Stall- akoom, and 5 others.		Treaty of Medicine Creek, Dec. 26, 1854, vol. 10, p. 1132; Executive orders, Jan. 20, 1857, and Sept. 6, 1873. 17,463 acres allotted to 167 Indians. Agreement made Nov. 21, 1876, ratified by act of Feb. 20, 1893, vol. 27, p. 464. (For text see annual report 1893, p. 518.) The residue, 599 acres laid out as an addition to the city of Tacoma, has been sold, with the exception of 39.79 acres reserved for school, and 19.43 acres for ohurch and cemetary purposes, under acts of Mar. 3, 1893 (27 Stat., 633, June 7, 1897; 30 Stata., 62), and act of June 21, 1906 (34 Stata., 377). Executive order, Feb. 19, 1899.
Quileute. (Under Neah Bay School.) Tribe: Quileute.	² 837	
Quinaieit (Under Cushman School.) Tribes: Quaitso and Quin- aieit.	1 168, 553	Treaties of Olympia, July 1, 1855, and Jan. 25, 1856, vol. 12, p. 971; Executive order, Nov. 4, 1873. Under acts of Feb. 8, 1887 (24 Stats., 388), and Feb. 28, 1891 (26 Stats., 794), 680 Indians have been allotted 54,989.20 acres and 455.56 have been reserved for agency, lighthouse, and other purposes, leaving unallotted and unreserved 168,553 acres. Act Mar.
Shoalwater (Under Cushman School.) Tribes: Shoalwater and Chehalis.	1 335	4, 1911 (36 Stat., 1545). Executive order, Sept. 22, 1866, 55,535-7-1909.
Skokomish. (Under Cushman School.) Tribes: Cisliam, Skoko- mish, and Twans.		Treaty of Point No Point, Jan. 26, 1855, vol. 12, p. 933; Executive order, Feb. 25, 1874. Allotted in treaty reserve 4,990 acres; residue, none. (See L. B., 895, p. 288.) Allotted in Executive order addition, known as the Fisher addition, 814 acres; residue, none. (L. B., 895, p. 285.) 62 allotments.
Snohomish or Tulalip (Under Tulalip School.) Tribes: Dwamish, Etak- mur, Lummi, Snoho- mish, Sukwamish, and Swiwamish, and	1 824	Treaty of Point Elliott, Jan. 22, 1855, vol. 12, p. 927; Executive order, Dec. 23, 1873. 23,186 acres allotted to 164 Indians.
Spokane. (Under Spokane Agency.) Tribe: Spokan.	82, 327	Executive order, Jan. 18, 1831. Agreement made Mar. 18, 1887, ratified by Indian appropriation act approved July 13, 1892, vol. 27, p. 139. (For text see Ann. Rept., 1892, p. 743.) Joint resolution of Congress of June 19, 1902, vol. 32, p. 744. Under act of May 29, 1908 (25 Stat. L., 458), approximately 628 Indians have been allotted 65,114 acres, and 1,247.30 acres set aside for church, school, agency, and town-site purposes. By proclamation of May 22, 1909, the President opened the surplus lands to settlement. 5,781 acres classified as agricultural land, 82,647.50 acres classified as timber reserved for tribal use.
Squaxon Island (Klahchemin) (Under Cushman School.) Tribes: Nisqualli, Puyal- lup, Skwawksnamish, Stailakoom, and 5others.		Treaty of Medicine Creek, Dec. 26, 1854, vol. 10, p. 1132; land all allotted, 1,494.15 acres, to 23 Indians.

¹ Surveyed.

² Outboundaries surveyed.

TABLE 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
WASHINGTON—continued.	Acres.	
Swinomish (Perrys Island) (Under Tulslip School.) Tribes: Dwamish, Etak- mur, Lummi, Sucho- mish, Sukwamish, and Swiwamish.	244	Treaty of Point Elliott, Jan. 22, 1855, vol. 12, p. 927; Executive order, Sept. 9, 1873. Allotted, 7,359 acres to 71 Indians reserved for school, 89.80 acres.
Yakima. (Under Yakima School.) Tribes: Klikitat, Paleos, Topnish, Wasco, and Yakima.	1 412, 404	Treaty of Walla Walla, June 9, 1855, vol. 12, p. 951. Agreement made Jan. 13, 1885, ratified by Indian appropriation act approved Mar. 3, 1893, vol. 27, p. 631. (For text see Misc. Indian Docs., vol. 41, p. 227; see also Ann. Rept. 1893, pp. 529-521, and S. Ex. Docs. No. 21, 49th Cong., 1st sess., and No. 45, 50th Cong., 1st sess.) Executive order Nov. 28, 1892. Agreement, Jan. 8, 1894, ratified by act of Aug. 15, 1894, vol. 28, p. 320. 296,407 acres allotted to 3,137 Indians, and 1,129.24 acres reserved for agency, church, and school purposes. (See letter books 354, p. 419; 416, p. 203, and 879, p. 243.) Act of Dec. 21, 1994 (38 lists., 595), recognizing claim of Indians to 293,837 acres additional land, subject to the right of bons fide settlers or purchasers, acquired prior to Mar. 5, 1904. (See 39848, 1902.) Act Mar. 6, 1906 (34 Stat., 53), and act May 6, 1910 (36 Stat., 348), under which 188,102 acres were allotted to 1,339 children. (See 9262-14.)
Total	1, 699, 646	
wisconsin.		
Lac Court Oreille	² 540	Treaty of Sept. 30, 1854, vol. 10, p. 1109; lands withdrawn by General Land Office, Nov. 22, 1860, Apr. 4. 1865. (See report by Secretary of the Interior, Mar. 1, 1873.) Act of May 29, 1872, vol. 17, p. 190. 68,511 acres allotted to 872 Indians. Act of Feb. 3, 1903, vol. 32, p. 795. (See 95927-1915.) Treaty of Sept. 30, 1854, vol. 10, p. 1109, lands selected by Indians. (See report of Supt. Thompson, Nov. 14, 1863, and report to Secretary of the Interior, Inp. 2, 1865.
Lake Superior. Lac du Flambeau (Under Lac du Flambeau School.) Tribe: Lac du Flambeau Band of Chippewa of Lake Superior.	24, 424	partment order of June 28, 1866. Act of May 29, 1872, vol. 17, p. 190. 45,756 acres allotted to 600 Indians; act of Feb. 3, 1903 (32 Stats., 795), leaving unallotted 24,424
La Pointe (Bad River) (Under La Pointe Agency.) Tribe: La Pointe Band of Chippewa of Lake Superior.	14,090	acres. Treaty of Sept. 30, 1854, vol. 10, p. 1109. 368.91 acres patented under art. 10; 195.71 acres fishing ground. 115,808 acres allotted to 1,608 Indians. (See letter to General Land Office, Sept. 17, 1859, and letter book 381, p. 49.) Acts of Feb. 11, 1901 (31 Stats., 765), Mar. 2, 1907 (34 Stats., 1217), and Aug. 1, 1914 (38 Stats., 522-605), leaving unallotted and unreserved school and swamp lands, 14,090 acres. Act June 30, 1913 (38 Stats, 77-102), which authorized the purchase of land in Wisconsin and Michigan for \$150,000.
Potawatomi	• • • • • • • • • • • • • • • • • • • •	Act June 30, 1913 (38 Stats, 77-102), which authorized the purchase of land in Wisconsin and Michigan for \$150,000.
Red Cliff. (Under Red Cliff Agency.) Tribe: La Pointe Band (Buffalo Chief) of Chip- pewa of Lake Superior.		Feb. 21, 1856. (See Indian Office letters of Sept. 3, 1856, and May 25, 1863, and General Land Office letter of May 27, 1863. See Executive orders. See report of Supt. Thompson, May 7, 1863. Lands withdrawn by General Land Office May 8 and June 3, 1863.) 2,535.91 acres allotted to 35 Indians under treaty; of the residue 11,566.90 acres were allotted to 169 Indians under joint resolution of Feb. 20, 1895. vol. 28, p. 270, and 40 10 acres were reserved for
Menominee (Under Keshena School.) Tribe: Menominee.	231, 68 0	school purposes. Treaties of Oct. 18, 1848, vol. 9, p. 952; of May 12, 1854, vol. 10, p. 1004, Feb. 11, 1856, vol. 11, p. 679, and May 18, 1916 (39 Stats., 123-153). Treaty of Feb. 3, 1838, vol. 7, p. 566, 65,428,13 acres allotted
Oneida (Under Oneida School.) Tribe: Oneida.	151	to 1,502 Indians; remainder, 84.08 acres, reserved for school purposes. 6 double allotments canceled containing 151
Stockbridge (Under Keshena School.) Tribes: Stockbridge and Munsee.		acres (see olds-1912). Trist period on a subtinents ex- tended 19 years; Executive order, May 24, 1918. Treaties of Nov. 24, 1848, vol. 9, p. 136; Feb. 5, 1856, vol. 11, p. 663, and of Feb. 11, 1856, vol. 11, p. 679; act of Feb. 6, 1871, vol. 16, p. 404. (For area, see act of June 22, 1874, vol. 18, p. 174.) 167 Indians allotted 8,920 acres. Patents in fee, act June 21, 1906 (34 Stats., 382). Act of Mar. 3, 1893 (27 Stat., 744).
l l		, , , ,

1 Partly surveyed.

²Surveyed.

²Outboundaries surveyed.



Table 6.—General data for each Indian reservation, under what agency or school, tribes occupying or belonging to it, area not allotted or specially reserved, and authority for its establishment, to June 30, 1918—Continued.

Name of reservation and tribe.	Area (unal- lotted).	Treaties, laws, or other authorities relating to reserves.
WYOMING. Wind River. (Under Shoshone School.) Tribes: Northern Arapaho and Eastern Band of Shoshoni.	Acres. 1 884, 940	Treaty of July 3, 1868, vol. 15, p. 673; acts of June 22, 1874, vol. 18, p. 186, and Dec. 15, 1874, vol. 18, p. 291; Executive order May 21, 1887. Agreement made Apr. 21, 1896, amended and accepted by act of June 7, 1896 (vol. 20, p. 23); amendment accepted by Indians July 10, 1897. (See Land Div. letter book 359, p. 468.) Act of Mar. 3, 1905, ratifying and amending agreement with Indians of Apr. 21, 1904. (See vol. 33, p. 1016.) President's proclamation June 2, 1908, opening ceded part to settlement. It contained 1,472.844.15 acres. (See letter book 368, p. 157.) Reserved for Mail Camp, 120 acres; reserved for Mail Camp Park, 40 acres; reserved for bridge purposes, 40 acres. Subject to disposition under President's proclamation, 1,488,633.66 acres. 246,822 acres were allotted to 2,401 Indians, and 1,792.05 acres were reserved for agency, school, church, and cemetery purposes, under acts of Feb. 8, 1887 (24 Stats., 383), as amended by act of Feb. 28, 1891 (26 Stats., 794), and treaty of July 3, 1868 (15 Stats., 673), leaving unallotted and unreserved 584,940 acres. Act of Aug. 21, 1914 (39 Stats. 511), mining, oil, and gas lands.
Total	584, 940	•
Grand total	34, 441. 168	

¹ Partly surveyed.

TABLE 7.—Lands set apart during fiscal year ended June 30, 1918, for temporary use and occupancy by mission organizations.

States and reserva- tions.	Organization.	Act and citation.	Warrant for action.	Acreage.
Arizona: Pueblo Bonito	Christian Reformed Church		Policy	90.00
San Xavier (Papa- go).	Franciscan Fathers of Arizona		do	
San Juan	Board of Home Missions of Presby- terian Church in the United States of America.		do	10.07
Truxton Canon Western Navajo	Immanuel Indian Missionary Council Presbytery of Northern Arizona		do	2.00 160.00
Campo	Catholic Church		do	1.00 5.00
Fort Yuma	Woman's Home Missionary Society of the Methodist Episcopal Church.	Aug. 15, 1894 (28 Stat. 335).	do	1.00
Minnesota: Leech Lake. Montana:			do	. 50
Fort Peck	Bureau of Catholic Indian Missions	May 3, 1908 (35 Stat. 558-560).	do	40.00
Tongue River	General Conference of Mennonites of North America.		do	1.00
North Dakota: Fort Berthold.	American Missionary Association	June 1, 1910 (36 Stat. 455).	do	3. 58
AAb Dabada	Bureau of Catholic Indian Missions	do	do	7.24
Bouth Dakota: Cheyenne River	Catholic Indian Church	May 28, 1908 (35 Stat. 460).	do	95.02
Pine Ridge	Domestic and Foreign Missionary Society of the Protestant Episcopal Church in the United States of America.	53361 70071	do	40.00
Rosebud Standing Rock	Rosebud Indian Cemetery Domestic Foreign Missionary Society of the Protestant Episcopal Church in the United States of America.	Feb. 14, 1913 (37 Stat. 677).	do	5. 00 80. 00
Total	•••••			531. 72

Table 8.—Patents in fee issued to mission organizations during fiscal year ended June 30, 1918.

States and reserva- tions.	Organization.	Act.	Citation.	Acreage
Montana: Blackfeet	Board of Home Missions and Church Extension of the Methodist Episcopal Church.	Mar. 1, 1909; Már. 1, 1907.	35 Stat. 781, 814; 34 Stat. 1015, 1086.	325. 87
Nebraska: Santes	Domestic and Foreign Missionary Society of the Protestant Episcopal Church in the United States of America.	Mar. 3, 1909	35 Stat. 814	20.00
North Dakota: Devila Lake. South Dakota:	Mission of Sisters of Charity for Montreal.	do	do	83. 43
Crow Creek	Board of Home Missions of the Presbyterian Church in the United States of America.	do	d o	160.00
Rosebud	Domestic and Foreign Missionary Society of the Protestant Episoopal Church in the United States of America.	June 30, 1910	dodo	50. 00 480. 59 284. 20
Sisseton Standing Rock	dodo	Mar. 3, 1909 May 29, 1908; Feb. 14, 1913.	35 Stat. 814	40. 00 80. 39
Wisconsin: Menominee.	Bureau of Catholic Indian Missions.		85 Stat. 814	21.00
Total				1, 545, 48

Table 9.—Indians engaged in industries other than farming and stock raising during fiscal year ended June 30, 1918.

States and superintendencies.	Industry.	Number engaged.	Value of products.
Total, 1918		25, 433 26, 657 26, 956 27, 956 22, 968 24, 490 22, 564 21, 235	\$1,030,369 1,315,112 1,206,826 1,177,600 1,194,185 1,316,298 1,211,335 847,456 177,169 131,374
Arisona		8,629	324, 163
Camp Verde	Basket making	58 4	648 228
Total		02	876
Colorado River	Basket making Beadwork Woodcutting	20 75 120	500 1,500 15,000
Total		215	17,000
Havasupai	Basket making	38 12	425 144
Total		50	589
Kafbab	Basket making	20	150
Leapp	Bianket weaving	365 100	20,000 4,500
Totai		465	24,500
Moqui.	Basket making. Blanket weaving. Pottery. Woodcutting. Others.	75 250 25 30 2, 125	1,200 21,000 500 792 72,448
Total		2, 505	95, 935

Table 9.—Indians engaged in industries other than farming and stock raising during fiscal year ended June 30, 1918—Continued.

States and superintendencies.	Industry.	Number engaged.	Value of products.
Arizona—Continued. Navajo ¹	Blanket weaving	250 70	\$50,000 7,000
Total		320	57,000
Pima ¹	Basket making	1,050 200 450	10,500 350 7,500
Total		1,700	18, 350
Sait River	Basket making	48 8 120	825 75 7,200
Total,		176	8, 100
San Carlos	Basket making Beadwork Woodcutting	200 50 200	800 150 14,000
Total		450	14, 950
San Xavier	Basket making	750 400 50	15,000 45,000 1,500
Total		1,200	61, 500
Truxton Canon	Basket making	30 30 103	¹ 3,000 1 3,400
Total		163	6, 700
Western Navajo	Basket making	79 1,050 42 132	* 263 * 15,750 * 945 * 1,575
Total		1,303	18, 533
California		1,094	57,687
Bishop	Basket making Woodcutting	* 25 25	125 3,000
Total		50	8, 125
Digger	Basket making	8	150
Fort Bidwell	deBeadwork	100 50 150 30	1,250 500 14,000 900
Total		830	16,650
Fort Yuma	Beadwork Pottery Woodcutting	15 6 100	1,000 1,000 5,000
Total		121	7,000
Greenville	Basket making	20 12 48 32	200 300 4,800 8,000
Total		112	13,300
Hoopa Valley	Basket making	75 100 40 10	1,000 500 2,000 5,000
Total		225	8, 500

1 1917 report.

² 1916 report.

· Estimated.

Table 9.—Indians engaged in industries other than farming and stock raising during fiscal year ended June 30, 1918—Continued.

States and superintendencies.	Industry.	Number	Value of
		engaged.	products.
California—Continued			
California—Continued. Malki	Basket making	18	\$172
	Woodcutting	17 10	1,248 150
Total		45	1,570
Pala	Basket making	51	1,930
•	Lace making Pottery	22	363 30
,	Woodcutting	12	450 12
	Others	1	
Total		89	2,785
Soboba	Basket making	19 34	500 1, 620
	Woodcutting	17	1, 525
Total		70	8, 645
Tule River	Basket making	24	192
	Woodcutting	20	720
Total		44	912
Idaho	·	256	29,750
Coeur d'Alene	Beadwork	8	200
	Woodcutting.\Others	25 7	10,000 5,100
Total	,	40	15,300
Port Hall	Basket making	20	200
7 4 5 11.5 U	Beadwork	45	600
	Others	150	13,500
Total		215	14, 300
Fort Lapwai	Woodcutting	1	150
Iowa		70	1,750
Sec and Fox	Beadwork	25	250
	Others	45	1,500
Kansas: Potawatomi	Others	2	8,000
Michigan		480	15, 200
Mackinac1	Basket making	35	300
	Beadwork	25 110	300 300 8,000
	Woodcutting	75 235	2,000 9,600
Minnesota	Ctudis	3,721	83, 266
	TM-hi-		
Grand Portage	Fishing	20 6	6,000 116
	Others	78	4,000
Total		104	10,116
Leech Lake	Beadwork	100	1,800 400
	Lace making	25 400	7,500
,	WoodcuttingOthers	1,800	7,500 8,000 21,500
Total.,		2,375	34,200
Nett Lake	Others	112	3,850
Pipestone (Birch Cooley)	l		2,000
- Sentence (Titlet Amel)	~ wave3	<u> </u>	-,000

1917 report.

TABLE 9.—Indians engaged in industries other than farming and stock raising during fiscal year ended June 30, 1918—Continued.

States and superintendencies.	Industry.	Number engaged.	Value of products.
Minnesots—Continued. Red Lake	Beadwork	130	\$1,200
	Fishing	275 60	\$1,200 9,000 4,600
Total		465	14, 800
White Earth	Basket making	50 100	100 3,000
	Lace making. Fishing. Woodcutting.	10 300 200	200 5,000 10,000
Total		660	18, 300
Montana		425	35, 045
Blackfeet	Woodcutting	25	6,000
Crow	Others	2	1, 200
Flathead	BeadworkFishing	50 4	3,000 600
•	WoodcuttingOthers	15 4	5,000 2,250
Total		73	10, 850
Fort Belknap	Woodcutting	30 20	2,100 1,500
Total		50	3, 600
Fort Peak	Beadwork	35 45 65	375 1,700 10,000
Total		145	12,075
Tongue River	Beadwork	100 30	400 920
Total		130	1,320
Nebraska; Omaha	Others	12	9,080
Nevada		395	10, 469
Fort McDermitt	Woodcutting	25 31	1,125 36 5
Total		56	1,490
Moapa River	Woodcutting	9	39
Nevada	Basket making Beadwork Fishing Others	30 30 50 4	400 250 2,500 1 2,500
Total		114	5, 650
Walker River	Basket making	100	1,110
	Beadwork Fishing Woodcutting.	50 50 6	105 1,600 400
Total		206	3,215
Western Shoshone	Basket making	10	75
New Mexico		4,630	246, 290
Jicarilla	Basket making Beadwork Woodcutting	50 40 8	750 250 400 2,100
	Others	114	3,500

1 Estimated.



TABLE 9.—Indians-engaged in industries other than farming and stock raising during fiscal year ended June 30, 1918—Continued.

States and superintendencies.	Industry.	Number engaged.	Value of products.
New Mexico—Continued. Mescalero	Basket making	45 35 50 25	\$1,00 50 1,40 15
Total	• • • • • • • • • • • • • • • • • • • •	155	3,08
Pueblo Bonito	Blanket weaving	1,000 50 65	50,00 12,00 4,30
Total		1,115	66,30
Pueblo day schools	Basket making. Readwork. Blanket weaving. Pottery. Woodcutting. Others.	4 60 1 820 22 84	8,68 1,74 6,78
Total	O MANAGEMENT OF THE PARTY OF TH	991	17,96
San Juan	Basket making	25	2/
regar 4 miles	Blanket weaving	2,000	150,00
Total		2,025	150, 2
Zuni	Beadwork	50 150 30	4(7! 4,00
Total	• • • • • • • • • • • • • • • • • • • •	. 230	5, 1
Oblish		27.4	
Okiahoma	D. J	374	10,91
	Beadwork	200	(*)
Kiowa	Woodcutting Others	30 4	3,50 2,10
Total		34	5,60
Seger	Beadwork	140	5, 2
Oregon		526	15, 17
Klamath ³	Basket making	200 10	1,00 2,18
Total		210	8,1
Siletz	Basket making Woodcutting Others	12 4 25	24 30 1,80
Total	 	41	2,34
Umatilla	Beadwork	75 25	1,87 2,10
Total		100	3,9
Warm Springs	Beadwork. Woodcutting. Others.	50 50 75	5(4,2) 1,0
Total		175	5, 70
South Dakota		406	7,6
Crow Creek	Beadwork	60	2
Flandreau	Beadwork	5	10
Lower Brule	Beadwork	35 2	
Total		37	12

TABLE 9.—Indians engaged in industries other than farming and stock raising during fiscal year ended June 30, 1918—Continued.

States and superintendencies.	Industry.	Number engaged.	Value of products.
South Dakota—Continued. Pine Ridge	Beadwork	257 44	\$2,981 2,134
Total		301	5,06
Yankton	Others	3	2,08
Utah		139	8,71
Goshute	Basket making Beadwork	32 32	1 7! 1 100
· Total		64	17
Shivwits	Basket making	16 26	120 2,720
Total		42	2,840
Uintah and Ouray	Basket making Beadwork	7 26	200 500
Total.		88	700
Washington		1,347	99,78
Colville.	Basket making	55 72 28 10	780 80- 5,600 15,640
Total		165	22,824
Coshman	Basket making	57 13 5	890 300 150
Total		75	1,340
Neah Bay	Basket making Fishing Others	135 61 64	3 5, 070 2 2, 500 3 4, 37
Total		260	11,94
Spokane	Woodcutting	25 3	2,400 1,200
Total		28	3,600
Taholah 1	Basket making	74 90 13 22	2,500 13,500 350 570
Total		199	16,931
Tulalip	Basket making	20 54 31 45	146 16,360 17,100 1,980
Total		150	35, 59
Yakima	Basket making Beadwork Fishing Woodcutting	50 300 100 20	400 1,600 1,000 4,500
Total	² Partially repo	470	7, 50



Table 9.—Indians engaged in industries other than farming and stock raising during fiscal year ended June 30, 1918—Continued.

States and superintendencies.	Industry.	Number engaged.	Value of products.
Wisconsin		2, 857	\$73, 715
Grand Rapids 1	Basket making Beadwork Fishing Woodcutting Others	25 10 10 85 300	650 40 650 1,400 2,000
Total		380	4, 740
Hayward	Beadwork. Fishing. Woodcutting. Others.	50 450 25 480	700 700 1,500 2,080
Total		1,006	4, 890
Keahena	Basket making. Beadwork Fishing. Woodcutting Others.	5 10 200 1 210	50 200 1,600 400 7,400
Total		426	9, 650
Lec du Flambeau	Basket making Beadwork Fishing Woodcutting Others	150 300 300 25 2 50	1,500 5,000 1,020 5,000 8,375
Total	•	825	20, 895
La Pointe	Basket making Beadwork Fishing Woodcutting Others	6 12 5 8 10	175 400 7,000 4,800 (*)
Total		41	12, 375
Oneida	Basket making	50 75 3	(4) 3,009 (4)
Total		128	8,000
Red Cliff	Lace making Fishing Woodcutting Others	2 20 10 20	8, 000 10, 000 200
Total		52 70	18, 22 5 3, 798
Shoshone	Beadwork	10 10 50	(¹) 700 3,093
RECAPITO	ULATION.		
Total	Basket making Beadwork Blanket weaving Fishing Lace making Pottery Woodcutting Others	3, 971 2, 717 4, 916 2, 624 168 1, 212 3, 091 6, 734	\$54, 240 36, 656 306, 800 88, 641 5, 608 11, 385 271, 154 265, 886
Grand total	•	25, 433	1,030,369
¹ 1917 report. ² Families.	'Unknown. 'N	ot reported.	•

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TABLE 10.—Incomes o.

ΙŪ	,	COMMISSION	-CALC	OF L	DIAN	AFFALM	J.		
	Indian moneys, proceeds of labor and miscel- laneous.	\$11, 087, 381 4, 814, 757 4, 864, 758 1, 566, 182 1, 940, 687 1, 940, 687 797, 210	256, 408	18,330	43,611	28, 134	3, 166	601	*2,066
	Treaty and agreement obliga-tions.	\$725, 300 \$725, 500 \$30, 560 \$30, 500 \$30, 500 \$							
, 1918.	Interest on trust fund.	\$1,303,980 1,568,064 1,778,115 2,125,787 1,777,643 1,740,206 1,911,900 1,387,349 1,476,320							
ed June 30,	Proceeds sales of land.	84, 834, 017 6, 917, 753 3, 421, 536 4, 812, 865 6, 116, 406 6, 010, 643 (1)					40, 418	6, 182	35, 236
il year ended	From individual leases.	2, 886, 497 3, 885, 231 3, 983, 231 2, 975, 526 3, 486, 634 4, 386, 151 2, 882, 027 100, 946 (1)		©			8,790	25 000 ft	6, 84,
mes, fisc	Rations and miscellaneous femes.	\$501,622 367,206 401,026 499,886 576,202 487,488 462,428 690,665 1,231,000	88,383	1, 358 2,728 301	2,210	2, 12, 28, 28, 28, 28, 28, 28, 28, 28, 28, 2	7,564	28 29 .i. 28 29 .i. 28 28 28 28 28 28 28 28 28 28 28 28 28 2	2,1 2,2 2,4 2,4 2,4 3,4 3,4 3,4 3,4 3,4 3,4 3,4 4,4 4,4 4
including tribal incomes, fiscal year	Wages earned.	83, 199, 850 2, 878, 957 2, 878, 877 2, 804, 839 1, 9406, 124 1, 940, 414 1, 940, 414 953, 673	680, 734			13,8,8,8,4,8 31,88,88,8	464, 335	24.1.1.28 5.5.38	
encluding	Value of timber out.	\$1,000,001 1,460,139 1,137,001 1,925,000 1,925,000 1,388,100 1,388,100 1334,225 163,460	76, 420	12,973	878 2,500	31, 750 6, 750 14, 670 6, 900	2, 408	1,950	83
eruatione),	Native industries, weaving, basketry, etc.	\$1,020,380 1,316,112 1,206,826 1,177,600 1,114,131 1,211,428 1,211,438 1,71,100 177,100	324, 163	17,000	26,500 57,985 900 900 900 900 900	81,80,21,00,81,00,	57,687	3, 125 16, 150 16, 650 17, 000 13, 900	8, 1,570 785 785 785
.—Incomes of Indians (by reservations),	Stock sold.	\$3,996,441 2,583,038 2,114,633 1,789,683 1,789,960 1,571,795 900,000	1, 282, 442	21,290	20, 800 35, 948 918, 000	24, 030 14, 116 18, 517 216, 235 11, 206	65,945		11. 9,0,0 0,01,0 0,01,0
res of Indu	Crops raised by Indians.	90, 781, 862 6, 283, 719 4, 790, 968 4, 007, 335 8, 202, 288 1, 961, 762 1, 408, 865 1, 607, 072	941,983	2,720 2,720 2,720		85 82 82 85 85 85 85 85 85 85 85 85 85 85 85 85	463, 552	26, 310 26, 310 26, 320 172, 548	25,05 26,05 25,45 49,05 40,05
10.— <i>Incon</i>	Total.	25, 066, 070 28, 867, 666, 070 28, 867, 666 28, 709, 046 28, 709, 074 21, 484, 048 9, 091, 986 8, 307, 235	3, 595, 528	¥. E. E. O.	. 888.	17.88.88.50 26.88.88.50 26.88.88.88.88	1,002,804	41,060 18,310 7,132 257,334 142,688	
LABLE	Popu- lation.	306,755 300,755 307,797 307,797 309,911 307,447 300,930 226,320 226,522 220,437	44, 499	2,184 1,184 1,186	1,4,2 1,2,2,4,2 1,2,4,2 1,4,2 1,4,2 1,4,2 1,4,2 1,4,2 1,4,2	6,1,2,2, 2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	10,725	1, 588 222 260 750 835 683 683	•
	States and superintendencies:	Total 1918 1916 1916 1914 1913 1913 1911 1800	Arizona.	Camp Verde. Colorado River. Fort Apacho. Havasupai.	Kalond Leupp Moqui Navajo Phoeniy	Pima Salt River San Carlos San Xavier Truxton Canon Western Navalo	California	Bishop Campo Digger Fort Bidwell Fort Yuma Green-vile	Hoops Valley Malki Palsi Round Valley Sherman Institute.

	3, 415 2, 824 2, 824	:	11,865	320 7,350 4,186	621	980	980			156, 575	3588	154,023	1,962	30,945	8 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	, e, ř. 5 5 5 6 6 7	
	16, 658 6, 973 9, 685	:	8,000	3, 900 5, 900						4,000			76, 134	6,000		70, 134	No record.
	383 383		4,967	4, 867	17,422	6,772	6, 772			286, 192	28,88,27,77, 27,77,100,11,71	35, 250	28, 29	88.6	9	10, 2/8	98
	14,358 6,814 7,544	***	11, 591	11,591		88	328			395, 392	20, 552 57, 473 22, 361	58, 786	214,237	801, 515	109, 270	2962, 050 2962, 050	d New Max
	6, 139 6, 139		461, 181	186, 190 40, 365 234, 626		103, 062	45, 159 57, 928			402 '5	ę	343	4, 202	45,628 85,988	66, 441	es,	evetions of Arisons and New Mexico evetions.
22	11, 8, 8, 020, 025, 6, 020, 020, 020, 020, 020, 020, 020,		8,077	8,077				90	004	19, 583	1, 171 1,551 1,828 1,828	889 830	23, 98 54, 549	36, 467	5,178	3,0,18, 2,2,8, 2,2,8,	Y 2
6,887	8,7,1, 1,98,1	3,300	44, 665	21, 910 17, 875 4, 880	5, 663	14, 512	8,456 5,457	6, 414	5,840	131,514	4, 500 71, 449 33, 579 19, 926	8,2% 909 000 000 000 000 000	387,084	113, 860 Z7, 724	88.8 8.8 8.8 8.8 8.8	544 588	· Sundry re
			38, 888	36,911	1,344			885	268	231, 611	5, 722 126, 045	183, 517	15, 127	874	175,948 9,600	476	<u> </u>
3,646			29, 750	15,300 14,300 150	1, 760	3,000	3,000	15,200	15, 200	83, 266	7 10, 116 34, 200 3, 850	2,000 14,800	35,046	6,000	5 8 8 8 8 8 8 8 8	1,820	
4,810 5,366	3,810 1,120 2,600	:	120, 463	39, 806 80, 668	00	66, 606	66,600			28, 200		25, 200	711,835	372,000	32,500	8,-,8, 888	farming and
£,4, 5,5,	88. 88.	2,900	621,020	213, 250 150, 894 156, 885	20,656	500, 220	384, 550 214, 670		€	282, 166	8,1,28,20 20,7,4,00 37,00 37,00	57,934	126, 540	69, 500 165, 350	88,88 8,88 8,88 8,88 8,88	3.4.2. 3.45.	which is duplicated in
122,086 16,088	2.22 22.23 22.23 22.23	9,200	1, 260, 476	533, 134 324, 528 402, 814	57,060	798,904	8,466 501, 766 283, 688	22,906	17,066	1, 730, 202	101, 448 348, 682 360, 336	21.88 22.69 20.00	3, 556, 960			. 3,88 5 3,88	
83	258 258 273	288	4, 144	25,1,2 25,25,1	998	1,414	783	1,007	1,097	12,008	1,067 1,321 1,186 614	1, 496	6, 566		28	, -,	10 \$197,120,
BobobaTule River	Colorado. Bouthern Ute. Ute Mountain	Florida: Seminole	Idabo	Coeur d'Alene Fort Hall	lows: Sac and Fox	Kansas.	Hashell Institute Kickspoo Potawatomi	Mchigan	Mackinac.	Minnesota	Fond du Lao. Grand Portage. Leech Lake Nett Lake		White Earth	Blackfleet.	Flathead.	Rocky Boy's Agency Tongue River	1 Does not include \$197 2 Unknown. 8 Improvements.

Table 10.—Incomes of Indians (by reservations), including tribal incomes, fiscal year ended June 30, 1918—Continued.

Indian moneys, proceeds of labor and miscel- laneous.	\$6,987	5,639	5, 515	827 821 221 1,103 1,572 1,130	132, 433	98, 994 83, 440 28 7, 7	18,940	1	19,343	17, 238 1, 528 407
Treaty and agreement obligations.	-				\$100,000	28,000 7,000 65,000	10,500		70,040	16,490 58,560
Interest on trust fund.	\$6,214	1, 081					2,060	128	82,734	5,789
Proceeds sales of land.									\$446,882	221,080 978 224,774
From individual leases.	\$379,628	206,000 179,628	1,943	250	10,384	10,384			198, 773	106,824 39,173 *31,989 \$0,807
Rations and miscellameous issues.			\$2,919	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22,046	15, 221 6, 034 575 216		8	23,006	. 20, 281 20,000 725, 281
Wages earned.	\$30, 538	23,580 23,088	103,311	12, 980 29, 030 33, 628 4, 052 4, 422 11, 420 7, 429	195,730	25,935 15,102 15,102 5,340 24,662 10,443 11,797	202	68,636	68, 295	10,768 10,309 436,930 7,369 2,919
Value of timber cut.			81,000	1,000	75,633	70, 702		1,001		
Native industries, weaving, basketry, etc.	\$9,060	9,080	10,469	1, 490 5, 650 8, 215 75	246, 250	3, 500 3, 050 66, 360 17, 980 150, 250				
Stock sold.	\$8,508	8,508	24, 129	1,081 225 1,150 5,086 16,607	398, 158	18,325 18,370 112,338 177,376		16, 375	177,780	142,650 1,750 • 33,380
Crops raised by Indians.	\$316, 500	225, 800 90, 700	134,541	17, 120 3, 525 19, 650 11, 834 87, 665 44, 747	696, 650	10,675 20,427 1,550 400,013 122,075	£	46,300	444,314	17,200 108,700 • 132,414 191,000
Total.	\$756, 455	5, 590 443, 480 307, 405	728, 827	13, 28, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24	1,877,333	9, 114 200, 636 20, 636 101, 853 539, 601 10, 442 226, 272	31,712	132, 465	1, 481, 116	521, 524 172, 850 561, 515 222, 308 2, 919
Popu-	2, 463	1,377	10,854	24.0 24.0 1113 1113 561 804 807	21, 186	621 630 8,886 6,500 1,815	5,982	2,343	8,940	1, 204 9, 3, 455 3, 208
States and superintendencies.	Nebraska 1	Genoa Omaha Winneuago	Nevada	Varson Fallon Fort McDermitt Mospa River Nevada Walker River Western Shoshone Reno, special agent.	New Mexico	Albuquerque Jicarilla Mecaler Mecaler Presidento Presid	New York: New York	North Carolina: Cherokee	North Dakota	Fort Berthold Fort Totten Sanding Rock Turtle Mountain Wahpeton

9.682.260	1,813	6, 486	122	315	9, 481, 901		37,413 112,843 5 98	150, 359	87,908	235 235 1, 806 2, 115		40,033	98	116	
56,120			47, 100	1,500	48,600		10, 520	10,520			096 196	55, 320 56, 320 56, 320	, 5, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	107, 120	ıployees.
516,967	25,008	126, 160 247, 148	2,7,4 2,8,8,6 2,8,8,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,	28.24 28.24	455, 404	2, 761	100 82, 625 26, 177	61, 563	12, 508	4, 199 1, 050 7, 245	170 075	39,506	. 1.	20,740	t Indian er
2, 630, 513	19,002	72,187 9,981			101, 260		1,883,137 17,666	2, 529, 258	25,300	23, 600 1, 709	907	283, 506		10,962	Governmen
1, 406, 145	52, 173 118, 750	267, 096 190, 980	282 488	106, 168	1,361,353	44, 792		44, 793	143,663	16, 917 2, 240 124, 506	907	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1,574	108, 236	Regular and irregular Government Indian employees
									1,854	670 844 728	276	3,0	. 3. u. 5. u.	77,940	Rogular a
208, 860	9,180	3,8,7. 8,2,3,5 8,2,5,8	100 0 200 0 200 0	2,4,7, 88,081 8,080	109,067	• 81,480 • 1,596	6 701 6 995 8 3,727	PA, 493	44, 023	11, 688 11, 108 2, 204 2, 204 10, 130	89, 239	30,474	≅ 388	108, 661	
									74, 914	70, 164	£ 78	for to	3,200	31,962	Unknown.
10,910	€	5,660		5,250	10,910				15, 175	3,150 2,350 3,975 5,700	1 67	90,1	33	5,066	
208, 358	1,660	235,750	7.684	4.3.4 855	280,358				132,018	83,000 82,375 16,643		70, 150	11,410	814, 782	1, 8. Dak.
1, 286, 645	48,450	258 216,900 216,900	8.7.8 5.58 5.58 5.58	### 88.50 88.50 88.50 88.50	1, 266, 645				506,923	21, 975 306, 500 32, 148	1 007 700	101, 870	, e, 8, 5, 8,	284,980	der Yanktor
16, 019, 468	284,990	1,097,297	200 200 200 200 200 200 200 200 200 200	158,069	13, 128, 488	126,252	2, 013, 495 25, 923 26, 289	2,890,980	1,044,290	328,344 11,103 54,611 582,569 67,663	30,239	<u> </u>	5.9. 35.5.	1,020,817	¹ Does not include Santee now under Yankton, S. Dak. ² Includes Indians in California.
116, 404	780	4,583 186 186	- 588	ન `	14,988	41,834	10, 966 26, 828 18, 761 3, 127	101, 506	3,667	1, 160 1, 229 1, 229	8	6,		7,340	include Sa indians in
Oklahoma	Cantonment Cheyenne and Arap- sho	Chilogoo Klows Osage	Pawnee Ponca Sec and Fox	Bogar Seneca Shawnee	Total	Five Cyvilized Tribes Cherokee Nation	tion	Total Five Civ- ilized Tribes.	Oregon	Klamath * Salem Siletz Umatilia	Pennsylvania: Carlisle	Canton Asylum Cheyenne River	Flandresu Lower Brule	Pine Ridge	¹ Does not i Includes I

TABLE 10.—Incomes of Indians (by reservations), including tribal incomes, fiscal year ended June 30, 1918—Continued.

Indian moneys, proceeds of labor and miscel- laneous.	23, 031 2, 136 2, 604 8, 000	476 133 4, 481 66, 800	16, 962 44 2, 377 2, 45 45, 22 46, 209	63,058 310 310 809	z3, 279
Treaty and agreement obligations.	\$50,400 46,440 22,082	22, 082	1,000		30, 406
Interest on trust fund.	875, 676 15, 380 10, 780 76, 736	76,736	3,249	91, 564 42, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2	362 poorts.
Proceeds sales of land.	\$43,338 187,375	28, 206	26,754 279 1,172		6,459 .
From individual leases.	\$115,585 71,560 90,330 78,985	78,906	28, 666 1, 375 3, 832 4, 278 270, 750	22	25, 665
Retions and miscel- laneous issues.	\$62,728 3,611 30,603	30, 181 2, 362	940 226 31 177 177 177 177 177 186 4, 520	1, 997 1, 199 1, 199 309	2, 680
Wages	12, 330 12, 388 12, 388 12, 388 17, 780 187, 881	71,811 3,324 12,796 146,687	24.4.4.4.9.8.8.10.10.10.10.10.10.10.10.10.10.10.10.10.	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	60,719
Value of timber cut.	£1, 052	1,062	3,583 8,580 120 2,088 142,695 721,694	21, 936 419, 358 280, 400	139
Native industries, weaving, basketry, etc.	\$2,088 8,715	2, 840 700 99, 733	22, 22 1, 346 11, 945 11, 945 11, 945 3, 560 7, 500 7, 500	20, 885 20, 885 20, 885 3, 000 18, 225	3,793
Stock sold.	\$59,240 14,150 (*) (*)	16, 250	114, 530 5, 360 1, 086 2, 930 11, 965 15, 478	1, 620 4, 338 9, 560	31, 100 Nebraska
Crops raised by Indians.	\$225, 308 235, 250 441, 726 124, 600	14, 810 3, 450 106, 340 820, 716	246, 580 16, 230 7, 330 75, 816 4, 500 109, 310 387, 960	25, 25, 25, 25, 25, 25, 25, 25, 25, 25,	1, 696 546, 044 142, 182 31, 100
Total.	84, 307 752, 066 850, 864 1, 000 06, 217	87, 272 10, 169 536, 968 1, 764, 782	306, 038 86, 200 22, 172 25, 173 25, 132 25, 132 335, 026 694, 817	85.4.25 85.1.25 85.1.25 85.1.25 1.1.24 1.24	546, 044 Santoe form
Popu- lation.	2,521 2,280 3,117 1,704	423 11.9 1, 162 11, 082	2,566 2,143 682 734 734 3,000 9,000	1, 372 1, 276 1, 276 1, 054 1, 064 2, 610	1,696
States and superintendencies.	South Dakota—Contd. Rapid City Rosebud Bisston Springfield Yankton!	Goshute. Bhivwits. Ulntah and Ouray	Colville Cushman Neah Bay Spokane Taholah Taholah Tulahip Yakima	Grand Rapids 1. Hayward Keshena. Lec du Flambeau. La Pointe La Pointe Canaida. Red Citif Tomah	Wyoming: Shoshone

TABLE 11.—Use of agricultural lands belonging to Indians, fiscal year ended June 30, 1918.

			Cultivated by In-	d by In-						Loseed	-ë			
States and reservations.	Area o	Area of lands.	dians	ns.	A ble-bodied	Number of Indians		∏¥	Allotted.			Unallotted		
	Allotted.	Un- allotted.	Allotted.	Un- allotted.		farming.	Number of leases.	Number of allot- ments.	Ares.	Income.	Num- ber of leases.	Ares.	Income.	Total income.
Total, 1918. 1917. 1916. 1915. 1914. 1912.	Acres. 5, 322, 348 5, 313, 420 6, 623, 170 6, 623, 170 5, 820, 701 6, 775, 542 6, 661, 032	Acre. 886,011 981,566 964,428 966,428 2,221,135 2,873,108 2,673,108	Acre. 612, 532 539, 577 532, 096 468, 722 478, 062 431, 500	Acres. 147, 401 187, 114 134, 174 182, 444 128, 546 117, 270	444488 21-888888	26, 328 36, 178 31, 966 31, 966 38, 311	1 19, 073 1 20, 567 1 22, 612 1 16, 560 (*)	1 20, 226 1 19, 241 1 20, 045 1 15, 207 16, 757 8 28, 847	Acres. 12,145,553 12,023,788 12,387,642 12,387,643 11,670,207 13,100,209	83, 007, 875 2, 615, 639 2, 605, 496 2, 117, 166 (a)	1,088 1,063 1,544 1,544 68 578	Acres. 60,001 424,961 452,627 2,370 4,151 1,70,201 4,951	25.4.3.0.000 211.3.0.000 201.3.0.000	183, 103, 983 12, 646, 909 12, 122, 431 13, 104, 319 18, 520, 281 18, 073, 996
1911 1900 4 1890 4	~ : :		265, 080	117,945 28,544	28,544	24, 489 10, 835 5, 554	933G	2, 592 2, 592	1 2, 528, 496	.	1,706	1 183, 528 8, 421		7,083
Arisona	. 64,255	149,850	34,637	53, 535	10,802	11,462	304	¥0£	3,040					
Colorado River	12,355	87,806	1,314	120	018 818	# 25 S	\$08	5 08	8,040	•				•
Havesupai Kaibab		, 2 188 88		385	828	3 62								
Leupp	: :	85°,		986 986	1,106	200								
Navajo' Pima s Salt River	40,360 8,040	9,690	26,250	50	9.1. 8.1.2.	4,7, 8,8,4 8,8,4								
San Carlos San Xavier. Truxton (anon Western Navalo	3,500	2, 51 2,000 3,000	1,500	. 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1, 978 1, 129 1, 631	 8848								
Includes some graz Not reported.				Only items rep Families actua Improvements	Only items reported. Families actually liv Improvements.	ing upon (and oultive	sting lands	Only items reported. Families actually living upon and cultivating lands in severalty. Improvements.		1917 1916 0ve	1917 report. 1916 report. Oversetimated last year.	last year.	

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Table 11.—Use of agricultural lands belonging to Indians, facal year ended June 30, 1918—Continued.

-			Cultivate	Cultivated by In-					•	l eased	.			
States and reservations.	V See	Ares of Islands.	di g	dians.	Able- bodied	Number of Indians		Alk	Allotted.	•		Unallotted		
	Allotted.	Un- salotted.	Allotted.	Un- allotted.	adults.	farming.	Number of leases.	Number of allot- ments.	Ares.	Income.	Number of leases.	Ares.	Income.	Total income.
California	Acre. 26,428	A cres. 31,046	Acres. 9,326	Acres. 8,510	3, 123	1, 736	1.09	109	Acres. 6,738	\$6,390	7	Acres. 140	02	. \$6,410
Bishop.	3,350	8,000	1,850	300	8	236	. 1	-	9	8				26
Digger Fort Bidmell			88	នុង	32	38								
Fort Yuna	88	<u>:</u>		180	83	323	909	9	6,000	1 15	m	100	22	38.
Hoops Valley		1,2	1,48	38.2	300	82	-	-	8	100	-	9		00°
Pala Round Valley.	1,685 5,388	3,490	1,067	150	337	***	172	189	1,678	6,225	1		7	6, 226
Tule River		, 98		7, 200 7,	281	38								
Colorado Southern Ute. Ute Mountain.	6,800 16,800	8 8	1,780	88 18	283	288	44	88	3,756 3,756	1,550				1,660
Florida: Seminole		2,140		908	291	88					:			
Idaho	216,519	11,039	26,006	.	Ę	\$	2,082	2,007	159,645	484,820	۰	118		454, 820
Coeur d'Alene. Fort Hall Fort Lapwal	57, 714 38, 540 120, 266	2,000 6,579 2,500	9,20 10,881 226,236	25	82 83 83	2 8 8	243 546 1, 243	243 546 1,308	28, 606 10, 981 110, 106	185,830 14,931 284,069	٥	118	©	185, 830 14, 831 234, 069
lows: Sac and Fox		2,520		1,500	21	28					8	2	1,200	1,200
Кальяв	47,001		14,940		8	108	99	981	30, 223	80, 813				80, 313
Kickapoo	19,786		8,916 9,026		148	88	20.00	196	11,964	85, 18 25, 154				45, 109 35, 154
Michigan: Meckinac t	B		8		9	8								

2,858	2, 516	82, 356 82, 356 83, 708	20. 170, 708 200, 200	550	
	10,001	10,611	4,000		
<u></u>	88, 88	3,060	3,000		con, B. Da
	911	11188	đa		x Yank
2,868	3,516 182,663	82, 350 879, 821 82, 350	200,000 179,628 250	230	e, now und
1, 591	228 1, 363 242, 256	6,720 41,286 48,971 1145,270	4,307 4,807 6	-04	Does not include Santes, now under Yankton, S. Dak.
8	1, 583	168 412 601 377 1,88	38.85 83. 6	8	Does not it
8	12 22 22 28 24 28 25 25 25 25 25 25 25 25 25 25 25 25 25	317 554 372 372 1,578	067 848 2	5	••
88	8128 8 9 1 28 1 28 1 28 1 28 1 28 1 28 1	23.25.25.25.25.25.25.25.25.25.25.25.25.25.	98 58	28 200 200 200 100 1,267	100 117 2005 2006 1,200 1,600
	1	1			
2,163	¥6 2 5838 8	250 250 250 250 250 250 250 250 250 250	378 378 2, 582	114 91 146 126 288 11,755 3,388	(9) 623 ct reported.
1,566 2,163	2 244 266 1142 11,663 310 11,006 2,631	511 648 648 648 64, 500 777 776 777 777 778 778 778 778 778 789 778 789 778 789 789	330 378 1,466 2,682	1 144 21 21 21 21 21 21 21 21 21 21 21 21 21	22,060 2,575 6,000 640 20,000 620 640 640 650 640 650 650 650 650 650 650 650 650 650 65
	4	30.		975 888 880 880 810 1,280 1,070 1,070 1,025 85,070	300 1,1 1,2 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0
1,665	1,663	4,500 776 5,730	1,465	31.5 31.5 34 1,070 35,970	300 300 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
15, 858 1, 565	3,001 3,001 3,001 10,646 11,006 99,800 11,006 2,	111, 000 78, 000 16, 500 1121, 376 66, 990 35, 000 4, 500 285, 000 4, 500 4, 500 10, 100 100 10, 100 100 10, 100 100 1	12,300 9,116 3,743 1,466	975 988 380 315 1, 280 1, 000 1, 000 1, 000	300 1,1 1,2 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0

Table 11.—Use of agricultural lands belonging to Indians, secal year ended June 30, 1918—Continued.

			Cultivated by In-	d by In-						Leased	-ei			
States and reservations.	Area of lands.	ands.	diana	á	A ble-	Number of Indian		Alle	Allotted.			Unallotted	1	
	Allotted.	Un- allotted.	Allotted.	Un- allotted.		farming.	Number of leases.	Number of allot- ments.	Area.	Income.	Num- ber of leases.	Ares.	Income.	Total income.
North Dakota.	Acres. 466, 324	Acres. 15,000	Acres. 63,680	Acres.	2,448	1,860	1,306	1,906	Acre. 121, 829	\$149,320		Acres.		\$149,320
Fort Berthold Fort Tottan Standing Rock ' Turtle Mountain	105, 994 78, 900 31, 430 250, 000	15,000	11, 87 13, 67, 140 00, 140 000, 140		888. 888. 888.	\$3553 \$3553	650 411 87 158	1,25 411 88 158	22,000 30,998 11,780 11,071	88,750 88,748 13,789 13,192				88, 500 38, 748 8, 880 13, 192
Oklahoma	1, 217, 201	9	160,060		3, 293	2,694	5,467	6,917	1, 100, 908	1, 125, 748	88	30,040	\$17,732	1, 153, 480
Cantonment Cheyenne and Arapaho. Cheyenne and Arapaho. Klowa. Klowa. Otoe Otoe Ponca. Sac and Fox Sacrand.	88, 611 56,000 56,000 157,100 187,100 88,276 88,196 87,196 87,196 87,196 87,196 87,196 87,196 87,196 87,196 87,196 87,196 87,196	ĝ	4.7.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	ε	E 28 28 28 28 28 28 28 28 28 28 28 28 28	(*) (*) 1,200 1,20	284 825 935 2,925 416 296 397 579 828 828 897 (*)	250 2, 905 4,380 2,200 2	36.5 (1.5) (811 811 80 82 82 84 84 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85		1 30, 000	17,632	33,000 118,736 57,672 57,672 88,307 103,944 52,480 80,189 80,189
Oregon	181,742	46,550	23,000		760	206	266	201	45, 500	127,626	19	880	1,330	128,965
Klamath¹ Roseburz¹ Siletz Umatilla. Warm Springs.	30,000 21,707 3,940 64,318	35,000 1,560 10,000	2,000 2,000 11,721 3,568		(*) 88 947 161	22 25 26 26 26 26	84 25	18 531	1,840 41,787	2,240 124,426	81	888	1,339	960 2, 240 125, 766

included.	 As reported. Crop value not included. 	land.	'Classed as grazing land. Unknown.		 Leases are made without departmental supervision. Includes grasing lands. 	artmental	thout dependent	e made wi grazing la	• Leases an	g leases.	Not reported. Includes some grazing	Not repo	¹ 1917 report. ² Includes grazing leases.
22, 680			10 22, 680	14,215	380	250	246	386		7,259	75, 700	77,996	Wyoming: Shoshone
12			12	*		1	5588858 8458	356 421 184 108 714 152	8, 220 750 750	2,000 457 2,800 3,435 375	8,220 50 12,416 1,750	51,800 457 5,000 • 4,052 555	Kayward Kashan Lac du Flambeau Laona La Pointe Oneida. Red Ciff.
12			13	4	-	-	1,068	1,938	4,020	9, 167	17,436	61,864	Wisconstn
28, 665 1, 375 3, 797 4, 278 250, 000			28, 666 1, 375 8, 797 4, 278 250, 000	3, 500 1, 670 66, 000	428 8 8 8 1,100	25. 88. 201,1	288335831 2188835	50000000000000000000000000000000000000	జక	75 25, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	26,459 10,000	109, 550 5, 557 3, 420 35, 887 12, 650 136, 000	Colville Colville Neah Bay Spokane Spokane Tulahoh Tulaho Yakima
288, 115			288, 115	83,915	1,600	1,512	1,198	1,935	725	52, 130	36, 709	302, 973	Washington
78,770			78,770	56, 420	88	898	55 19 19 19 19	8128	8	8,908	8,200 8,000	69, 223	Goshute. Shivwite. Uintah and Ouray
78,770			78,770	56,420	88	388	8	\$	88	8,908	9,500	69,223	O'tah
18, 710 18, 710 3, 006 22, 296 69, 928 69, 988			1, 100 18, 710 8,006 22, 236 66, 928 62, 093	2, 000 1, 343 2, 343 32, 343 32, 344	5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1,700 837	528 525 55 528 525 55 528 55 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,200	2,700 1,000 11,285 11,285 11,285 12,750 12,982	1,200	7,414 7,414 111,266 1,306,286 117,001 47,900	Cheyema River Cheyema Findrea Findrea Findrea Find Finds Fine Ride Resebud Sisseton Yankton
177, 133			177, 183	172,858	1,831	2,690	3, 838	4, 790	1,200	80,118	1,200	1,548,019	South Dakota

TABLE 12.—Use of grasing lands belonging to Indians, fiscal year ended June 30, 1918.

States and reservations. All		Area of lands.	Grazed by Indian stock	idian stock.					Leased	øđ.			
NT					Indians engaged		Alk	Allotted.			Unailotted.		
	otted.	Unallotted.	Allotted.	Unallotted.	raising.	Number of leases.	Number of allot- ments.	Ares.	Income.	Num- ber of leases.	Area.	Іпсоте.	Total income.
Total, 1918. 12 0 12 0 1916. 1917. 1917 1914. 1917. 1917 1917 1917 1917 1917 1917 19	25. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	Acres. 34, 302, 901 35, 274, 380 31, 969, 219 30, 635, 867 28, 991, 010 31, 029, 696 25, 169, 192 (3)	Acres. 6, 170, 246 7, 312, 683 8, 702, 349 8, 702, 245 8, 176, 723 8, 554, 127 8, 755, 552 4, 666, 446	Acres. 24, 336, 730 24, 518, 816 21, 904, 879 21, 350, 350 20, 611, 984 21, 734, 688 18, 739, 124 (3)	7,4,8,4,8,7,1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2	1 19, 900 1 17, 983 1 15, 550 1 19, 387 (3) (3) (3) (4)	116,839 116,839 110,426 118,356 119,768 119,763	A Cres. 14, 006, 682 13, 005, 170 11, 584, 146 12, 732, 732 109, 200 12, 732, 109, 200 12, 732, 109, 200 12, 732, 732, 732, 732, 732, 733, 733, 73	51,024,742 970,529 1,174,114 925,554 (6) (6) (7)	. 204 1,839 1,739 3,911 3,524 3,534 101	2,5,5,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,	\$78, 471 714, 884 574, 701 420, 886 (C.C.) 896	\$1,809,213 1,685,188 1,748,815 1,746,449 1,771,421 1,4,100,078 1,3,635,948 1,3,611,225 1,2,611,125
L.	8	17,327,302	70, 202	14,647,616	15,907					8	2, 557, 435	232, 790	232, 790
Colorado Rivar Fort Apache. Havasupai		1, 690, 370		10,000 2,275 415 2,415	300°£					2.8.	82, 500 997, 920 87, 600	17,491	17, 491
	14, 110		14, 110	2,997,906 1,714,906	1,4,6,1 1983 1983								
Salt River San Carlos.	16,080	1,825,271	18,547	8,55 26,55 15,55 1						+ 15	1,089,415	109, 770	100,770
Truxton Canon. Western Navajo		3,020,347		4 3, 039, 647	, 4, 88					* ©	300,000 (E)	15,500 (*)	15,500
Onliforni .	80,428	173,954	. 96,964	98, 543	1,158	8	137	22,730	2,400	60	12,000	1,146	2,546
		62,000	6,720	18, 569	2. 2. 2.								
	3,00 3,000	200	14, 150	8	48	6.	- 128 - 128	21,000	2,000				2,000
Greenville. Hoops Valley.	4, 5,8	48	1,88	8,83	£ 83	9	2	1,600	ଛି				8

Pala. Round Valley Boboba. Tule River	36,682	88.771 88.984 14.88	1 36, 582 37, 748	e, 71,20 88559	äääs	H		180	98		12,000	1,146	200
Colorado	39,480	360,000	16, 265	112,440	4	31	8	5,780	4,580	4	247,560	4,075	8,666
Southern Ute Ute Mountain	39, 480	360,000	16, 265	112, 440	n,	81	88	5,780	4,580	70	247, 560	4,075	4,580
Florida: Seminole		22,982			8								
Idaho	348, 232	112, 964	205, 584	78,088	1,076	1,122	1,126	171, 121	. 26,361	74	12,549	6, 821	33, 182
Coeur d'Alene Fort Hall Fort Lapwai	28, 440 305, 040 14, 752	4, 579 96, 540 11, 845	28,440 163,284 13,860	4,579 60,509 4,000	822 8228	1, 102	1, 102 15	1,380 168,849 892	25, 434 567	3£	4,704 7,845	2,144	27, 578 5, 244
Iowa: Sac and Fox		870		370	72					£	(9)	3	3
Kansas	22,008		4,544		170	218		16,950	22,769				22,769
KickapooPotawatomi	3,076 19,022		2,472		121	218	6	16,950	22, 769				22, 789
Michigan: Mackinac	€	€	€	€	130								
Minnesota	161,937	812, 458	136,911	240, 250	106	88	85.	6,666	1,846	17	1,380	233	2,079
Fond du Lac Grand Portage Leech Lake Nett Lake Red Lake	9,000 19,980 19,867 (7)	7 6,000 303,003	1,000	(a) 236,800	100 190 20 175	က	m	184	70				92
Montana		3, 514, 999	305, 711	789, 206	2,463	2, 292	2,901	670, 932	78,628	113	2,835,185	332, 718	411,346
Blackfeet Flathead Fort Belknap Fort Peck Hooky Boy's Agency Tongus River	736, 840 317, 229 42, 600 482, 400	1, 843, 702 1, 843, 702 162, 600 532, 717 46, 380	96,600 73,431 67,000 68,680	20,000 226,576 20,000 234,217 21,963 266,450	265 240 240 265 214 254 265	2,000 40	2,000 40 25	399, 280 258, 652 5, 000 8, 000	39, 928 35,000 2,500	80 20 41	600,000 9 1,618,125 875,000 121,980 30,080 90,000	80,000 205,000 37,872 4,196 8,400 117,250	98,928 246,000 2,500 37,872 5,386 8,406
Nebraska: Winnebago	15,000		15,000		22								
¹ Includes some farming leases ² Not reported. ³ Included in "Total income."	leases also.	Grazing Included Included	Grazing permits. Includes some agricultural lands. Includes some unfit lands.	iltural lands. lands.		1917 report. 1916 report. As reported.	16 1917 re 11 Hay le 12 Hay p	1917 report included agricultural lands. 11 Hay leases. 12 Hay permits.	agricultu	ral lands.	18 Estim 14 Includ	18 Estimated. 14 Including grazing permits.	g permits.

Table 12.—Use of graving lands belonging to Indians, fiscal year ended June 30, 1918—Continued.

	Ares o	Ares of lands.	Grazed by Indian stock	ndian stock.					Lessed	ed.			
States and reservations.					Indians engaged		ΨΨ	Allotted.			Unallotted.		
	Allotted.	Unallotted.	Allotted.	Unallotted.	raising.	Number of leaser.	Number of allot- ments.	Ares.	Income.	Num- ber of leases.	Ares.	Іпсотв.	Total income.
Nevada	Acres. 98,006	Acres. 695, 784	Acre. 16,055	Acres. 513,019	1,156	22	15	Acres. 70,685	\$1,663	22	Acres. 179,000	\$14, 105	\$15,798
Fallon. Fort McDermitt. Mosps River. Nevada. Walker River.	1::	2,940 801,000 71,834	1,062 1,250 8,448	1, 175	용 ^경						179,000	3,450	8,450
Reno, special agent	88, 250	6,609,826	6,300	5,566,756	11,013	8 5	454	70,685	1,063	1 8	564,130	ž, ž	2, 28 828, 23
	248, 477	386,647 1,860,000 1,860,000 3,782,000 112,000	59,348	1,000,000 1,000,000 1,000,000 8,736,000 112,000	848288	170	612	190, 944	10,884	910	218, 880 206, 250 50, 000	18,941	16,326 15,000 1,500
North Carolina: Cherokee North Dakota	1,727,565	57,000 175,876	1,399,249	57,000 86,961	2,163	1,248	1,760	359,875	49,453	15	103, 925	15,589	66,043
Fort Berthold Fort Totten Standing Rock 7 Turtie Mountain	231, 461 48, 822 1, 182, 282 166, 000	175, 876	250,427 48,822 1,000,000 100,000	86, 961	\$58.83 8.83 8.83 8.83 8.83 8.83 8.83 8.83	81 E 2	852 853	122, 158 182, 282 54, 586	81 25, 62, 25, 63, 53, 53, 53, 53, 53, 53, 53, 53, 53, 5	16	103, 925	15,589	89. 84.r. 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.00000 10.00000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10
Oklahoma. Cantonment Arapaho. Flye (tylized Tribes. Klowa. Osage.	1, 451, 287 16, 615 96, 117 48, 062 141, 901 902, 668 82, 974	1,080 1,080	134, 906 8, 580 8, 771 146, 445 24, 113	320	1,919 1,386 74 1,396 1,396 2,10	6,650 134 1,134 1,134 1,106 1,060	4, 962 13, 000 1, 000 1	13,611 180,741 180,042 188,620 349,585 33,466	467, 517 19, 173 4, 753 106, 778 106, 778		040	513	48,026 1118,726 1118,726 1106,773 117,940

8433 4488	286 740 004 816	8,5,6,4;	820	2222	11 28 28 2	385 199	28,227 740 836 836	28, 944 19, 500 26, 009				28, 944 28, 009
069 669.690 247.	10,800 247.002	:	383.020	1,018	22. 22	8 5	18,940	8, 88, 16, 68,	10	387.560	10. 232	88. 8
940 151,000 58,614	\perp		151,000	eg Eg	20	8	51,387	15,967	80	200,320	7,308	28,265
13, 810 73,000 13, 660 13, 660 114, 909 886, 590 178, 118	13,660	:	78, 670 158, 350	2288	30	60	150	88	61	187,240	2,924	2,924
,766,802 946,906 2,891,713			332, 920	4,349	7,471	8,177	1,650,384	318,879	*8	535, 927	21,804	340,683
973,422 • 701,880 864,012 970,880 930 000 440,180 207,586 1,816,589 667,772 666,690 175,589 1300	8-20,000 178,570 1,616,589 486,690		38,000 38,000 38,000	221.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	83 881,13 81,913 81,913	8,1,800 3,129 1,828 1,928	19 257, 910 95, 586 13, 120 823, 480 420, 100 8, 561	12, 202 12, 574 105, 230 1, 534 1, 632	*15	1 522, 301	1,206	98 10,1,19 106,438 10,248 1,539 1,539
897 250, 220 6,	6,967	:	286, 620	<u>8</u>	3	9 8	31,619	18 18 18 18	8		1,172	28, 227 1, 397
20, 397 210, 080 6, 967	6,967	1	34,020 6,120 196,480	au £	.00	69	. 520	225	88	(1)	1,172	1,897
525, 722 1, 478, 195 853, 667			784,879	1,756	125	125	10, 200	20,786	8	645, 554	55, 591	76,376
896, 622 197, 890 7, 042 220 8, 170	:	:	680, 689	25.23					12:	• 195,000	11,750	11,750
13 14, 000 12 22, 000 6, 000 2, 040 2, 040 12, 500 240 240 240 7, 915 268, 919 534, 863 131, 000 11			3,000 1,000 00,000	8238	3.6 120	120	700	20,730	£ (5)	20,700	856 42,985	891 68,735
23, 230 199, 604 13, 880	13,880		197,354	615								
800 12,300 184,564 112,790			12,790	528								
1,400	<u> </u>			ខ្ពង								
160, 284 ., 503, 406 160, 814		.	282, 430	2883	106	<u> </u>	8,470	3,185	38	1,350,000	65, 242	68, 427
• As reported. • Estimated. • Overestimated het veer. • Includes actionitumal leases	stimated.		ral leases.	7 1917 r	7 1917 report.	ural land.	9 Ceded lands not included.	is not inch	. د	¹¹ Agricultural land. ¹² Includes some sericultural lands.	land.	al lands.

TABLE 13.—Employment of Indians during fiscal year ended June 30, 1918.

			India	ns employ Indian s	ed by	United	Emp	loyed by p	rivate	parties.
States and superintendencies.	Total (employed.	Reg pl	ular em- oyees.	Irregu	ılar em-	A	dults.		s or out- oupils.
	Num- ber.	Rern- ings.	Num- ber.	Earn- ings.	Num- ber.	Earn- ings.	Num- ber.	Earn- ings.	Num- ber.	Earn- ings.
Total, 1918	25,948 25,681 23,440 22,793 22,424 11,781	\$3, 199, 850 2, 506, 957 2, 378, 377 2, 304, 339 2, 127, 403 2, 065, 124 1, 940, 414 1, 861, 630 963, 573	2.115	940.013	13,968 13,218 12,290 12,420 6,582	\$409,636 363,873 427,689 414,422 505,492 414,706 432,470 582,919	5,553 5,585 5,113	\$1,620,002 1,009,935 882,784 828,218 689,517 778,117 673,289 591,672 177,169	2, 486 2, 259 2, 254 2, 281 2, 350 2, 647 2, 375 (1) 807	\$166, 896 158, 366 145, 168 121, 686 121, 444 110, 087 102, 129 (1) 27, 256
Arizona	5,943	680,734	328	134, 186	2,688	84, 153	2,304	411,507	623	50,888
Camp Verds Colorado River Fort Apache Fort Mojave	144 178 1,001	28, 980 81, 352 25, 668	4 20 35	1,560 13,510 14,988	40 966	7,662 10,680	140 118	27,420 60,180		
Kaibab Leupp	135 217	7, 464 5, 526 3, 197 11, 751	7 1 2 21	3,720 300 225 5,552	20 101 125	171 1,265 8,374	55 30 25	5,055 1,407 250	26 2 46	3,744 300 2,575
Moqui Navajo Phoenix Pima	76 292 266 769	11, 281 38, 654 24, 112 55, 158	36 50 24 32	10,099 24,288 8,909 17,398	40 81 100 482	1,182 5,080 847 4 24,510	(²) • 120	(²) 4 5, 250	* 161 142 * 135	9,286 14,356 48,000
Rice Station Salt River San Carlos San Xavier	91 499 780 1,115	5,226 36,171 58,030 256,368	10 11 36 12	4,089 8,660 14,588 4,668	81 23 500 43	1,137 311 21,847 3,100	453 244 1,000	. 29,200 21,595 241,600	12	8,000 7,000
Truxton Canon	34 237	2,301 29,495	5 22	722	29 57	1,579 1,408	119	19,550	39	2,427
California	8,570	454,335	108	36,784	413	33,931	2,254	324, 824	795	58,796
Bishop	36 47 52	6,470 4,475 1,650	4 8	1,500		2,725		2,975 1,650		2,500
Green ville	279 540 507 440	7, 284 64, 060 129, 000 49, 292	1 2	1,320 8,949	128	3, 130	410 262	4,500 48,900 103,550 24,000	20 70	1,000 21,000 2,500
Hoopa Valley	311 269 29 650	49, 292 43, 375 41, 580 2, 179 34, 020	11	3,018 3,082 1,584 4,604	16 25	36 1,250 595	298 236	40, 321 35, 028	641	2,220 29,416
SobebaTule RiverColorado	311 99 104	65, 553 5, 397 8, 411	17 2	4,930 540	18 27	1, 163 257 4, 181	70	4,600	·····	160
Southern Ute Ute Mountain	100	7,031 1,880	-	2,700	91	4, 181			-	
Florida: Seminole	185	3,300	1	1,300			185	3,300		
Idaho	371	44,065	Į.	19,550	264	11,118	49	14,000		
Coeur d'Alene Fort Hall Fort Lapwai	71 292 8	21, 910 17, 875 4, 880	18 32 8	7.210	260	450 10,660	49	14,000		
Iowa: Sec and Fox	. 33	1	1	5,860	21	308	ļ	ļ		
Kanses	110	14, 512	20			178			81	2, 435
Haskell Institute Kickapoo Potawatomi	90 18	5, 457		5, 279	9	178			81	2, 435

* 1917 report. *1916 report.

¹ Included with adults by private parties.

² No data obtainable.

TABLE 13.—Employment of Indians during fiscal year ended June 30, 1918—Continued.

Bississ and superintendencies.											
Regular employees.		Total e	mplowed	India	ns employ Indian s	ed by ervice.	United	Emp	loyed by p	rivate	perties.
Michigan		10021	шрюуеч.	Rega ple	ilar em- oyees.	Irregu plo	ılar em- yees.	A	dults.		
Minnesotant											
Minnesotant	Michigan	14	8 6, 414	14	\$ 6, 4 14						
Cass Lake. 22 2, 216 6 4, 2245 16 171								••••			
Fond dil Lac. 9 4, 500 9 1, 4800 10 1 489 1188 17, 200 1 Leoch Lake. 217 31, 163 23 12, 422 46 1, 641 188 17, 200 1 70 1, 1016 100 16, 800 7 3.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Minnesota	1,058	131,514	148	67, 298	614	\$2 3,331	269	\$40,540	7	\$350
Leech Lake	Cass Lake		2,416		2,245	16	171				
Leech Lake	Grand Portage		1.449	13	1 960	19	1 489				
Red Lake	Leech Lake	217	31, 103	63	12, 422			138	17,200		
Red Lake	Nett Lake		19,926	8	2, 110		1,016	100	16,800	<u>-</u>	
Vermillion Lake 25	Pipestone	40	8,000	10	5,700		1,000	20	1.000	1 7	350
White Earth 220 24,041 43 17,085 225 6,976	Vermillion Lake		8 780	10	6 460	15	11,000		10, 950		• • • • • • • •
Blackfeet	White Earth		24, 041	43	17,065	226					•••••
Blackfeet		1 1				Ì	1		197,668		
Fort Bellinap 504			112 940				14 961	100	91.090	!	
Fort Bellinap 504			27,724	1 26	16, 751	347	10,973	120	01,200	· · · · · ·	• • • • • • • • • • • • • • • • • • • •
Fort Bellinap 504	Flathead	207	63, 501	37	5, 814	30	287	140	57,400		
Fort Peck Rock Boy's Agency 74	Fort Belknap	. 564	33.812	114	7.622	1 040	26, 184				
Nebraska 24	Fort Peck	110	49, 240	26	11,600	25	2,250	59	35,390	- -	
Nebraska S4 30,538 46 21,700 4 278 34 8,470 S6 S6 S6 S6 S6 S6 S6 S	Rocky Boy's Agency	74	24,856	4	231	15			23,598		
Genoa	Tongue Miver	224	24,002	-	11, 210	400	12,004	1			• • • • • • • • • • • • • • • • • • • •
Nevada	Nebraska 3	84		!			278	34	8, 470		
Nevada	Gerson	11	5,590	11	5, 590						
Nevada	Omaha	4	1,860	. 4	1,860	·····					
Carson	winnebago	0	23,000	181	14,340	1 •	2/8	34	* 8, 470		
Fallon	Nevada	1,098	103,311	43			8, 876	553	72, 320	90	5,70 .)
Fallon			12,980	10	5,680	46	1,600			90	5,700
Moaph River 39 4,062 3 552 36 3,500	Fallon	193	29,030	3	930	4		190	28, 100		
Walker River. 224 11, 770 4 1, 740 58 1, 610 162 8, 420	Fort McDermitt	188	33,622	6	1,127	17	201		32,300		
Walker River. 224 11, 770 4 1, 740 58 1, 610 162 8, 420	Navada		4,004	3			720	300	3,500	1	• • • • • • • • • • • • • • • • • • • •
New Maxico	Walker River	224	11, 770	4	1,740	59	1.610	162	8, 420		
New Maxico			7,42	8							
ABuquerque. 145 9, 414 12 5, 220 27 790	New Mexico	1.836		1	73, 318	788	1	1	93,808	277	10, 824
Mescalero						ļ			-	 	
Mescalero	Amuquerque	145	29,414	12	5,220	950			10 100		3,404
San Juan. 250 24,662 56 13,836 64 2,226 100 5,600 80 8,000		290	15 103	28	10, 505	217		33	2 687		60
San Juan. 250 24,662 56 13,836 64 2,226 100 5,600 80 8,000	Pueblo Bonito		5.340	16	5, 340		2,000	1	2,00.	·	1
Sant Juan 290 24, 602 56 13, 836 64 2, 220 100 5, 600 30 3, 000	Pueblo day schools.	. 346	86,047	87	12, 226	39	1, 145	248	71,281	22	1,395
New York: New York Agency	San Juan		24.662	5 56	13,836	64	2,226	100	5,600	.80	8.000
New York: New York Agency	Benta Fe		10,44	16	7, 160	53				117	2,965
North Carolina: Chero-line. 357 68,636 13 5,760 40 2,576 304 (0,300 North Dakota. 1,798 68,295 126 53,329 1,663 14,616 9 350 Fort Berthold. 75 10,768 22 9,318 53 1,450 Fort Tottan 33 10,309 21 10,040 12 209 350 Standing Rock* 1,560 36,330 64 25,722 1,466 11,208	Zum	100	11, 19	1	0,790	100	3,944	1 14	1 -, 110	1	
North Dakota		. 29	. 201			29	203		 	ļ	
North Dakota		257	£0 £0.	,.	g man	, ,	0 500	20.4	(0.200		
Fort Berthold 75 10,768 22 0,318 53 1,450		1		ı	1	l	1	1	, ,,,,,,,,		
Fort Totten		-		·\		·					350
FGRIGING R-008 1.500 36.430 64 25.722 1.496 11.208	Fort Berthold		10,78	9 22	9,818	53	1,450	J		·{	
Turtle Mountain 117 7, 369 15 5, 680 102 1, 089 350 Wahpeton 13 2, 919 4 2, 569 350	Right 10600		28 02	7 ZI	25, 720				·····	1	ļ
Wahpeton. 13 2,919 4 2,569	Turtle Mountain	. 117	7.36	15	5.680	102	1.680	á	1		
	Wahpeton	. 13	2,91	4							350
	-	I :	٠.	i		ţ	į	1	I	í	١.

¹1917 report. ²Estimated

¹Does not include Santee now under Yankton, S. Dak. Includes 27 in Army



Table 13.—Employment of Indians during fiscal year ended June 30, 1918—Continued.

							<u> </u>			
	Matal a		India	ns employ Indian s	ed by ervice.	United	Emp	loyed by p	ori vate	parties.
States and superintendencies.	TOCAL	mployed.	Regi	ular em- oyees.	Irregu plo	ılar em-	A	đuits.		s or out- pupils.
	Num- ber.	Earn- ings.	Num- ber.	Earn- ings.	Num- ber.	Earn- ings.	Num- ber.	Earn- ings.	Num- ber.	Earn- ings.
Oklahoma	796	\$203,550	315	\$190, 431	388	\$6, 182	32	\$5,200	61	\$1,737
Cantonment.: Cheyenne and Ara-	62	9, 180	1 1	4, 586	21	594	29	4,000		
paho Chilocco	44 332	9, 957 15, 199	32 19	9,800 11,169	12 252	157 2,302	:		61	1,737
Choctaw-Chicks- saw Sanatorium Five Civilized Tribes	92	960 80, 600	92	860 80, 600		•••••				
Kiowa	69 17	80,600 26,128	58	80, 600 25, 051	16	1,077				
Osage Otoe	17	14, 140 1, 260	17	14, 140 1, 260		•••••		• • • • • • • • • • • • • • • • • • • •		
Pawnee	7	3,530	1 7	3, 530		. 				
Ponca	14	6 820	14	6,820	1	 				
Sac and Fox	5 50	3, 920 7, 663	5 16	3, 920 5, 829	31	634	3	1, 200		
Seneca	8	4,000	8 14	4,080				1, 200		
Shawnee	14	7, 180	14	7, 180				•••••		• • • • • • • • • • • • • • • • • • •
Total	720	190, 517	296	178,816	332	4, 764	32	5, 200	61	1,737
Five Civilized Tribes Schools	76	13, 033	20	11,615	56	1, 418				
Armstrong	10	3, 497	3	3,812	7	185				
Academy Bloomfield Academy	2	701		576		125				
Cherokee Train- ing	35	1,596	1 1	879	33	717				
Eufaula Board- ing Jones Academy.	1	310	1	310	<u>.</u>					
Mekusukey	1 1	1, 135 14	1 1	900	9	235 14				
Academy Nuyaka Board-	10	. 417 3,417	1 1	3,275		142				
ing Tuskahoma _Academy		540		540		192			, ,	
Wheelock Academy	5	1,823	1 7	1, 823						
Oregon	329	44,023	1 1	35, 995	240	8,028				
Klamath 1	160	11,683		7,594	145	4,089				
Salem	29	11, 103	27	10 897	1 6	3,000				
Silets .	6	11, 103 2, 904	6	2 44						
Umatilla	44 90	8, 20 3 10, 130	40	5, 672 9, 208	24 69	2, 531 832				ļ <u>.</u>
Pennsylvania: Carlisle	494	39, 239	9	4, 519	9	. 4			476	34,716
South Dakota	2,865	272,393	337	136, 485	1,528	52, 558	999	83, 200	1	150
Cheyenne River Crow Creek	618 211	30, 474 17, 610 8, 048	46 27	17, 986 15, 123	572 184	12, 486 2, 487				
Flandreau	31	8,048	16	0.391	14	7, 307			i	150
Lower Brule	83	9, 503	15 8	6.804	1 67		1	500		
Pierre Pine Ridge	1,097	9,503 2,783 103,661	100	2, 549 38, 848	19 382	6, 413		58, 400	·····	·····
Kapki City	. 18	4.207	1 8	4,100	10	147	1]	
riossoud	731	74, 859 12, 380	80	4, 160 23, 675 11, 737	318	26,883	333	24,300	·····	
Sizzeton. Springfield	. 31	12,386	80 20 2 15	11,737	11					
Yankton 1	16	1,000 7,780	15	7,610	····i	150		 		ļ
Utah	576	87,931		9, 422	190	6, 109	348	72, 400		<u></u>
• Goshute	341	71,811	1	594	40	1,217	300	70,000		
Shivwits Uintah and Ouray	75 160	71, 811 3, 324 12, 796	26 26	8,504		600 4,292		2,400	1	
omian and Ouray	. 1601	12,790	ղ 20	7,004	134	1,2972	4 •	l	l	1

¹ 1917 report.
² Includes Santes, formerly listed in Nebraska.

TABLE 13.—Employment of Indians during fiscal year ended June 30, 1918—Continued.

			1	ns employ Indian s	ed by	United	Empl	oyed by p	rivate	parties.
States and superinten- dencies.	Total	emplo ye d.	Reg	ular em- oyees.		ilar em-	A	duits.		rs or out- pupils.
	Num- ber.	Earn- ings.	Num- ber.	Earn- ings.	Num- ber.	Earn. ings.	Num- ber.	Earn- ings.	Num- ber.	Farn- ings.
Washington	1,332	\$146,687	103	\$43,929	351	\$10, 168	878	\$92, 590		
Colville Cushman Nesh Bay	276 679 22	42, 758 54, 528 2, 710	12	2 542	1	8	666	24, 420 49, 450		
Spokane Taholah Tulalip	276 679 22 36 28 195	2, 428 2, 564 28, 685	.8 20	1,863 2,244 8,615	9	1,670	20 166	32k 18, 400		••••••
Yakima	96 1,498	13, 014 191, 954				1, 787 6, 43 6	1,095	139, 725	66	8960
Hayward Keshena Luc du F.ambeau	464 79 141	30, 480 13, 260 10, 669	33	9, 480 11, 767 7, 965	46	1,500 1,493 2,714	367	18, 900	40	600
Laons	32 513 14	2, 970 63, 188 5, 373	7	1,620 3,036		152	30 500	1,350 60,00 0		••••••
Red Cliff Tomah	232 23	62,945 3,069	, R	2,820	3	300 277	198	59, 475	26	850
Wyoming: Shoshone	570	60, 719	29	10,344	541	50, 875				•••••

TABLE 14.— Vital statistics, housing, and disease during fload year ended June 30, 1918.

	Houses having wooden	Boors.	27,976	710	12 m 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3°r 28	5-888888888
dng.	Families ilving in—	Tents, tepees, etc.	10, 794	5,424	288 659 659 10 10 200 1,600	1,140	83420434 #1
Housing		Permanant nent houses.	43,011	4, 563	88. 28. 28. 28. 28. 28. 28. 28. 28. 28.	Ses 3	82448888883
	Number families using miles	00 43	6,794	132	25 25 27 1	2 8	- e 81223°
	Estimated hav- ing-	Trs-	30, 375	6, 336	83 67 150 150 7 80 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,5		77- 235824238
	Estimated ing	Tuber- culosis.	28,021	3,627	200 270 270 28 184 1,090 1,090 88	8 8 E	6 .08244280.4P
Disease.	- q	Тта- сћоша.	12, 474	3,241	15 67 77 77 140 1,902 1,902 1,903 1,903	55 E F F F F F F F F F F F F F F F F F F	7.0 204842428
₽ S	Found with—	Active tuber- culosis.	3,941	461	() () () () () () () () () () () () () (. 328	a ugaagagaa
	A	Letent tuber- culosis.	3,067	98	2 E E E	23 2	9 H 40000 Fu
	Indians	ined.	64,273	10,797	117 763 1,262 22 262 2,535 2,5	3,975	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Births and deaths. Deaths.	Due to tuber- culosis.	1,266	787	14 8 8 7 7 13 131 131 (5)		
nd desths		Under 3 years.	1,541	22	(3) 88 8 8 15 E	2 8 8	0 1000000
Births at		Total.	4,683	743	827 0 4 2 E		Fee-528282852
		Buths.	5, 571	8	15 23 25 25 25 25 25 25 25 25 25 25 25 25 25		2272228
	Populs- tion.		205, 249	44,499	2, 1, 2, 1, 1, 1, 1, 1, 1, 2, 1, 1, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	2, 8, 01 25, 25, 01 25, 25, 25, 25, 25, 25, 25, 25, 25, 25,	225 225 226 235 236 24, 25, 26, 27, 27, 27, 27, 27, 27, 27, 27, 27, 27
	States and superintendencies.		Grand total	Arizona	Camp Verde Colorado River Fort Afracho Fort Afracho Havasur al Kathab Leupp Moqui Navajo * Salt River	Esn Xavier Truxton Canon Western Navajo.	Bishop Campo Digger Forf Yuma Greenville Hoops Valley Maid Pala Round Valley Round Valley Gooba Tule River

Colorado	877	17	28	18	4	898		13	144	8	300	•	138	164	19
Southern Ute. Ute Mountain	808	3 80	15	40	*	150	64	80	88	8	100	7	138	140	3"
Florida: Seminole	28 28 29 29	7	7							a				2	
Idaho	4,14	103	138	88	3	2,443	47	8	114	324	710	317	743	200	930
Coeur d'Alene Fort Hall. Fort Lapwal.	1,764 1,551	ಷಞನ	884	۾4	*#2	270 622 1,561	02	1283	38 27	164	52 615 43	011 81 881	24. 24. 25.	380	/ 22,58 8,22 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1
Iows: Sac and Fox	356	13	11	•	61	\$	i	80	14	\$	8		\$	8	28
Kansas	1,414	*	\$	90	90	411	1	80	116	•	23	86	878		428
Kickapoo Potawatomi	753	91 81	28	90	12	. 33 188	11	00 0	38	0	123	33	25 25 26 26 26		88
Michigan: Mackinac *	1,007		:			98	-	**	∞	•	*	**	\$:	222
Minnesota	12,008	619	297	88	7.5	4,062	207	288	909	3,234	2,206	83	2,866		2,243
Fond du Lac Grand Portage 1 Leen Lake Nett Lake Pipsscone (Birch Cooley) Red Lake	1,067 321 1,786 1,786 1,614 1,496	41188 7	20 24 0 2	2022001	7 113 132 22	540 1,023 563 63 63	15 7 35 22 22 56	4-45-4	28 183 26 276	20 80 83 83 83 83 84 85 84 85 84 85 84 84 84 84 84 84 84 84 84 84 84 84 84	378.55	30 30 8 130	857 111 88 88		822248 822248
White Earth.	6, 555 12, 079	\$ 9	21 120 742	* 8	126	1,747	43	306	1,274	1,536	1,560	-	1,211 2,791	898	1,100
Blackfeet Crow Flathead For Belkrap. Fort Belkrap. Rocky Boy's Agency Torgue River	44444 5538885 55	8238833	85448 3	జిచ్ ంక ావె	≅ 2≅¥ 4 ∞8	25.55 25.55	3 55885	2322308	355558 8	78888°E	31.1. 31.2.2.2. 35.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	388248	- 582534	180 20 180 8	555555 55555 5555 5555 5555 5555 5555 5555
Nebraska.	2,463	19	8	88	9	1,368		88	4	23	900	7	898	:	99 .
Omaha Winnebago	1,377	82	18	æ8	1010	(°) • 1,368	6	(S)	47	(S)	900 900	· · · · ·	28		88
'Estimated. 'No report.	정난			1917 report No record.	port.			'Inch	des 282 pa	Includes 282 patients from other	in other	neervation	zi		

Table 14.—Vital statistics, housing, and disease during fiscal year ended June 30, 1918—Continued.

			Births and deaths.	d desths.		,			Disease.				Housing.	ding.	
States and superIntendencies.	Popula- tion.	1 1 1		Deaths.		Indians exam-	Ĕ	Found with-	1	Estimated hav-	ed hav-	Number families using	Familie	Families living in—	Houses having
			Total.	Under 3 years.	Due to tuber-	ined.	Latent tuber- culosis.	Active tuber- culosis.	Tra- choma.	Tuber-	Tra- choma.	milch cows.	Perma- nent houses.	Tents, tepess, etc.	floors.
Nevada	10,854	E	246	28	88	1,063	87	31	308	372	1,717	8	2,004	88	1,451
Fallon Fort McDermitt Moaga River Newala Walker River Western Shokhone Reno, special agent 1	8,000 8,000 8,000	5008875	1209819	Gu40 FW	£ 404400	(1) 38 38 390 390 (1) (2)	3.0 6 10 12 12 (3)	(3) 11 11 11 11 11 11 11 11 11 11 11 11 11	5 288 88 E	181883 2	E7851458	Egan ne	2224288 2244288	428 818	23222223
New Mexico	21,186	265	197	438	101	6,255	222	228	1,195	3,114	3,265	181	3,603	1,743	346
Jioarilla. Messaker. Puebb Bonito. Puebb day schools. San Juan. Zuni.	8,530 1,886 1,886 1,886	(1) (276 218 218 63	27 E 8 8	(1) 4 (2) 850 850 81	£ £ £ £ £	2,702 7,002 7,002 7,002 7,005	40 12 115 55	82222	7.23257	151 252 267 2,134 3	881 1,982 11	4 0 67	2,875 200 200 787	35 193 440 1,075	E 25 25 25 25 25 25 25 25 25 25 25 25 25
New York: New York Agency	5,982	011	101	ĸ	ε	ε	ε	ε	€	ε	ε		1,600		1,600
North Carolina: Cherokee	2,343	8	41	Ф	п	22		10	15	8	8	450	455		456
North Dakota	8,940	211	187	\$	88	3,758	205	473	730	1,288	1,296	908	2,214		1, 183
Fort Berthold Fort Totten Standing Rock ? Turtle Mountain	1, 204 983 3, 455 3, 298	8883	8454	107	8420	853.7. 353.3.	121 121	82. 82. 82.	104 180 418 50	72 88 88 88 88 88 88 88 88 88 88 88 88 88	855±	8883	2323		200 188 25 25 25
Oklahoma	14,988	979	441	138	8	4,582	134	88	1,841	2,046	6, 120	198	4,251	411	4,001
Cantonment. Cheyenne and Arapaho	1,252	828	88	15	99	200	17	2	1 5	228	148 170	នន	9,88	25.00	720

, 978 978 978 978 978 978 978 978 978 978	1,319	25.86 26.85	4, 238	250 113 113 123 113 100 100 100 100 100 100 100 100 10	201	04012 151	2, 501	280 143 160 280 280 280 280	
8 32	8	32	器	32.2	125	828	Ş	e	
5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	188	\$885	7,731	1, 231 1, 231 1, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	蒸	5 % % 5	2,859	56 10 10 10 10 10 10 10 10 10 10 10 10 10	Orași Orași
### ### ##############################	뫮	8837	1,315	137 24.2 24.2 21.0 25.0 25.0	82	18	401	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	computt,
2,000 170 168 222 272 273 (5)	162	జ్ఞకర్ణ	1,769	22 22 22 22 22 22 22 22 22 22 22 22 22	390	25 230 230	1,295	340 204 100 204 20 131 500	ians in California formerly under Roseburg, Oreg
1, 25 20 20 20 20 20 20 20 20 20 20 20 20 20	276	2223	3,644	368 140 140 1,510 1,296 1,396	901	2 4 8 18	1,719	25 22 23 24 1, 120 1, 120	la formeri
61. 62. 63. 63. 63. 63. 63. 63. 63. 63. 63. 63	8	8648	1,010	272 26 20 20 21 24 24 26 20 30 30 30 30 30 30 30 30 30 30 30 30 30	153	11 88	38	314 26 3 73 73	1 Californi
25 cuo 25 (5)	8	~ w 25 w	878	3218538183	88	en-18	22	22 22 32 32 101	indians tz
(E)	2	₽ ∞ %	753	528828	15	1 14	180	10 2 28	No physician. As reported. Includes some
27. 28.1. 200 27. 28.1. 200 27. 28. 28. 28. 28. 28. 28. 28. 28. 28. 28	1,071	\$588 8	10, 198	2,018 175 175 2,364 2,364 3,364 800 800	652	13 59 580	2,701	1, 025 26 418 100 125 432 432	As relative
80 01 100	13	8-64	202	88442848	19	888	4	8100048	
\$ -18aca+	**	2-40	154	20-025°8	8	14	£	11-00458	
5228218ed	108	8288	611	F 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	99	824	235	\$25° 1882	
84823388	100	3888	385	25 28 25 25 25 25 25 25 25 25 25 25 25 25 25	8	21.18	233	4883248	
2,588 2,188 1,066 1,066 1,747 1,747	3,657	1, 1, 82, 82, 82, 82, 82, 82, 82, 82, 82, 82	22,879	2, 845 970 283 513 5, 346 8, 280 117	1,704	423 119 1, 162	11,082	2, 2, 2, 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	d
Kiowa. Osage Osage Otto Pawnee Ponca. Bao and Fox. Seneca. Seneca.	Oragon	Klamath s Silots Umstills Warm Springs.	South Dakota	Cheyenne River Crow Creek Fhandreau Lower Brule Lower Brule Rosebud Stackon Stackon	Utah	Goshute. Shivwits. Uintah and Ouray.	Washington	Colville Cushman Neah Bay Spokene Taklokh Tuship Yakima	No record.1917 report.Partly reported.

 $\mathsf{Digitized}\,\mathsf{by}\,Google$

TABLE 14.— Vital statistics, housing, and disease during fiscal year ended June 30, 1918—Continued.

	Houses having	doors.	2, 238	75 468 221 221 203 560 560 560 194 194
Housing.	Families living in—	Tents, tepees, etc.	258	326
Hou		Perma- nent houses.	2,358	* * * * * * * * * * * * * * * * * * *
	Number families	milch cows.	117	*81185488 8
	Estimated having—	Тта-	437	25 25 25 25 25 25 25 25 25 25 25 25 25 2
	Estims In	Tuber- culosis.	1, 263	92 310 313 325 325 36 36
Disease.	Ţ	Ттв-	822	16 35 36 96 76 3 8 8
Ā	Found with-	Active tuber- culosis.	308	దచ్చితోఘతో≻ఘ జొ
	F	Latent tuber- culosis.	22	112 163 169 77
	Indlans exam-	fned.	2, 701	250 250 250 250 250 251 251 251 251 251 251 251 251 251 251
		Due to tuber- culosis.	57	20 man a 2 man
Births and deaths.	Deaths.	Under 3 years.	38	8 nn-020
Births an		Total.	216	812 812 813 82 83 83 83 83 83 83 83 83 83 83 83 83 83
	i i		293	84248881 6
	Popula-		9,696	1, 372 1, 276 1, 768 1, 768 355 1, 064 2, 610 627 1, 696
	States and superintendencies.		Wisconstn	Grand Rapids! Hayward Keehem. Lac du Flambeau Lacons La Pointe Oneida. Red Cliff.

1 1917 report.

Birth rate per 1,000 Indian population. 29.43
Death rate per 1,000 Indian population. 24.73 SUMMARY.

¹Exclusive of Five Civilized Tribes in which the birth rate exceeds the death rate i normal ratio.

TABLE 15.—Hospitals and sanatoria in Indian Service, stscal year ended June 30, 1918.

Remaining	June 30, 1918.	2008 244 2508 244 2508 254 254 254 254 254 254 254 254 254 254	115	
	Died.	258 28888	8	
l year 1918.	Discharged.	5,5,5,1,1,5,0,0,7,	1,972	4 226 330 327 328
During fiscal year 1918.	Total treated.	7,5,5,5,11,0,0,8,0,11,0,0,8,0,11,0,0,8,0,11,0,0,8,0,11,0,0,8,0,11,0,0,8,0,11	2,113	250 250 250 250 250 250 250 250 250 250
	Admitted.	16, 838 16, 452 16, 314 11, 734 11, 103 9, 247 8, 073 8, 073 12, 176	1,961	256 258 258 258 258 258 258 258 258 258 258
Patients in	June 30, 1917.	488 352 352 402 286 380	162	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
:	Capacity.	2,283 2,283 2,283 1,143 1,133	445	**************************************
Character	of construction.			Adobe Frame Brone Brone Goode Frame Brick Frame Gomp Brick Stone Brone B
;	Number.	2222232224	15	se used for all 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Agency or school	hospital or sanatorium.			Agency Agency Frame Fr
	States and experintendencies.	Total, 1918 1916 1916 1915 1913 1912 1910 1900 1888	Arizona	Colorado River Fort Apeche Fort Mojave Loupo Mogul (Navajo (Navajo (Do (D

TABLE 15.—Hospitals and sanatoria in Indian service, fiscal year ended June 30, 1918—Continued.

Remaining	June 30, 1918.	88	88	28	•		19	φ :un αο	•	Ø →		22	E1	∞0	60	:
	Died.	0	4 H &	60	•	*	=	aumen	•	· 60		10	283	7	400	-
During fiscal year 1918.	Discharged.	185	e 17.0	8	1,255	307	883	186 114 341	87.6	3 50 ∞	ន	808	828	\$7.4	CH T	22
During fisca	Total treated.	282	163	113	1,264	810	898	. 197 89 115 347 216	*	43 116 3	ផ	98	262 578	88	235 111 7	
	Admitted.	168	######################################	E	1,260	908	830	187 80 114 343 206	381	114	ŭ	5	262 566	192	103	æ
Patients in	nospital June 30, 1917.	2	3	40	4	64	ā	10	*	98		12	21	e c	90	
	Capacity.	142	8 19 19	86	22	8	108	8. 8. 9. 9. 9. 9.	11	2242	14	136	88	8	20 20 20 20 20 20 20 20 20 20 20 20 20 2	8
	Character of construction.		Brick. Stone. Frame.	Brick	do	do		FramedostoneFramedodo		Frame. do. Frame and			FrameBrick		Frame.do. Stone. Frame	do
	Number.	4		41	-	-	20		9		-	69		••		-
	Agency or school hospital or sanatorium.		School and agency do	Sanatorfum	Behool	do		Agency Agency and school School Agency and school		Sanstorium Agency and school Agency Tent houses	Agency and school		SchoolAgency		School. Sanstorium Agency and school	do.
	Statos and superintendencies.	Idaho	Coeur d'Alene I Fort Hall Fort Lepwal	Iowa: Sac and Fox	Kansas: Haskell Institute	Michigan: Mount Pleasant	Minnesota	Fond du Lac. Leech Lake. Prostone. Ref Lake. White Earth	Montana	Blackfeet Crow Frackeed* Face Does	Fort Peck 4.	Nebraska	Genos. Winnebago.	Nevada.	Carson Do Fort MoDernitt Moaps River	Western Shoshone

Agency and school. 1 School Agency 1 Sanatorium School Of School Of	Albuquerque	School Agenoy Agenoy do Go School Agenoy Agenoy Agenoy	0 anananana	Frume do do do Briok Briok Frume Frume Stone	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 원대없~	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	1, 762 1264 126 164 165 166 166 166 166 166 166 166 166 166	1, 696 246 1102 102 102 102 103 103 103	3 4 644444	2
20	<u> </u>	gency and school	-	Frame	8		122	123	130	8	
20	+		•		\$	z	888	923	519	13	23
191 50 1,543 1,563 1,504 20 20	∞ < ∞ ∞	chool. gency anatorium chool.		Frame. do do Brick.	8883	15	328 228 151	59 235 107 151	220 220 92 148	00 e1 e1	7 18 1
250 20 20 171 201 201 171 60 1	:	•	7		181	28	1,543	1,593	1,504	8	8
56 50 668 728 721 8 5 5 5 5 5 5 5 5 5	<u>∞∞∞</u> ~∞	anatorium. chool. anatorium. gency and school. chool. do		Frame. Stone. Frame. Brick. Stone. Brick.	ర్ల స్ట్రహ్హ్హ్హ్హ్హ్హ్హ్హ్హ్హ్హ్హ్హ్హ్హ్హ్హ్	82012		\$2858 \$3	28:18:8:33 28:18:33		2022
256 83 1,891 1,974 1,874 15	<u> </u>	do	-	do	*	8	88	222	£7	•	•
256 88 1,891 1,974 1,874 15 27 4 224 26 6 6 9 28 5 6 7 20 96 6 9 29 7 18 18 189 199 199 199 189 189 189 189 1	-	do.	-	do	25	7	578	288	576	•	7
Second of the state of the United States. Second of the Un			•		256	88	1,891	1,974	1,874	15	88
	B8 B8 Ospital; Governcy hospital data from st	gency and school do chool do do do gency and school do	urae and p	Brick	92 12 12 20 20 20 12 12 12 12 12 13 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	small frame a cannot frame a condition for ins	224 183 406 505 505 138 138 260 Dungalows form.	96 1228 190 406 605 505 138 138 271 or tubercula from all par-	234 1386 405 504 504 530 138 208 r patients.	o 3 1 1 1 1	81 1 1 2

TABLE 15.—Hospitals and sanatoria in Indian service, fiscal year ended June 30, 1918—Continued.

		To be onemed 1919.	2		ıte.	3 For mill and dents	10 E		Sanatorium and sanaral homital	. Banatorium s.
						: 1	Stone	-	Agency a	Wyoming: Shoshone
11	11121	462 173 26 216 216	464 196 27 217 275	464 177 217 215	18	58 & & Q	Brick Frame do		School Agency Emergency 2 School	Hayward Kehena. Neopit Mills Oneida. Tomah
=	18	1,150	1,179	1,160	82	3		•0		Wisconsin
11 80 	3 - 3	25 12 85 5	070 08 07 07	670 56 197 70	4.8	45 20 12 12	Framedododo.		School. Agency 1 School. do	Cushman Cushman Tulalip Yakima
19	9	975	1,000	286	7	28		•		Washington
•	1	110	116	113	**	12	Frame	-	Agency	Utah: Uintah and Ouray
June 30, 1918.	Died.	Discharged.	Total treated.	Admitted.	June 30, 1917.	Capacity.	Number of construction.	Number.	Agency of school hospital or sanatorium.	States and superintendencies.
Remaining		During flacel year 1918.	During flace		Patients in					

TABLE 16.—Indians self-supporting and Indians receiving rations and musculaneous supplies during fiscal year ended June 30, 1918.

	A NIP			Indiana	Indians receiving rations	tions.				Indian	Indians receiving miscellaneous supplies	; miscellan	dns snoe	lies.	
States and reservations.	hodied adult Indians	Total.	is.	In return for labor	for labor.	Without	Without labor equivalent	livalent.	Total	æl.	In return for labor	for labor.	Without	Without labor equivalent.	livalent.
	self-sup-	Receiving rations.	Value of rations.	Number.	Value of rations.	Able-bodied.	Dis- abled.	Value of rations.	Receiving supplies.	Value of supplies.	Number.	Value of supplies.	Able- bodied.	Dis- abled.	Value of supplies.
Total, 1918 1917 1918 1918 1914 1913 1911 1911 18007 18007	55, 248 56, 588 56, 733 51, 751 51, 516	14,080 15,925 14,925 14,925 17,925 17,925 16,679 16,679 15,987 15,987	283, 681 275, 694 387, 684 247, 684 41, 384 460, 732 460, 732 305, 165 305, 165 11, 231, 600 11, 528 11, 528	1,327 1,110 1,110 1,326 1,138 1,113 1,416	840,022 14,294 18,708 18,708 13,172 37,282	4, 183 4, 941 3, 807 6, 650 5, 338 5, 175	8, 570 9, 034 9, 034 10, 256 9, 811 10, 680 10, 089	2841, 840 286, 680 334, 849 267, 472 461, 919 380, 882 380, 470	4,400 5,288 7,088 8,512 9,045 7,904 5,775 5,778	\$119, 761 82, 112 137, 469 201, 917 104, 808 83, 434 61, 696 195, 488	8,4,4,4,83 8,4,4,83 9,4,4,83 501	23, 524 31,036 30,036 30,037 30,034 31,000 3	1,307 1,547 1,547 1,634 2,046 835	1,122 1,263 1,510 1,510 1,210 1,450 1,330	886, 207 51, 7028 91, 9086 137, 808 32, 518 15, 953
Arizons	10,171	290	21,228	62		12	718	21,228	1,486	12, 155	1,187	8, 138	162	137	4,017
Camp Verde Colorado River For Apache Havasupal Kalbab Louph Moqui Pina u	35 6 3 2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8888 82222	2,006 1128 22 22 22 23 24 4,308 6,908 1,048 1,048	3 8 4 4	27. 181 79	g = en	88 88 88 88 88 88 88 88 88 88 88 88 88	2,008 108 108 108 108 108 108 108 108 108	(e) 28 28 28 28 28 28 28 28 28 28 28 28 28	282 282 282 282 283 283 283 283 283 283	25 25 25 25 25 25 25 25 25 25 25 25 25 2	2, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2		2 8 9 2 2	25 25 25 25 25 25 25 25 25 25 25 25 25 2
1 This 1916 r	ertains	ıly to Ir	NDS OI TESE	rvations w	here ration	s and mis	cellaneous	sanbblies	are issued.	, Not	Only items reported.	nly items	reported.		

TABLE 16.—Indians self-supporting and Indians receiving rations and miscellaneous supplies during fiscal year ended June, 30 1918—Continued.

0)		U	OWWISSION	SD (JE L.	N D	LAT		LLWID	.O.			
		uivalent.	Value of supplies.	886	3, 334	3, 184 150		Ş.	1,282	839 180	115	5,170	2,504 576	1,816
	plies.	Without labor equivalent.	Dis- sbled.	10					\$	3 =	\$2	ģ	81 88	88
	eous supi	Without	Able- bodied.	7	28	20		•	92	31		Z	69	22
	miscellan	for labor.	Value of supplies.	280					452	258 190		627	351	276
	Indians receiving miscellaneous supplies	In return for labor.	Number.	£ £ £1					2	- a-		8	12	9
	Indian	rai .	Value of supplies.	315 315 4	3,334	3,184		9	1,734	28.85 25.05	115	5, 797	2,504 227	1,816
		Total.	Receiving supplies.	(E)	25	3		•	143	2 2 2 3 4 4	4 68	909	180	88
		ivalent.	Value of rations.	1,028 1,183 1,183 437 616 516	8, 436	4,836 3,600	8,077		16,650	636 712 1,067	287 830 12,446	63,168	21,524 879 5,179	2, 20 2, 62 0, 62 0, 62 0, 63 0, 63
		Without labor equivalent	Dis- abled.	882288	951	150	ĝ	:	1,058	8°58	176 746	1,664	25 25 25	n n n
	ations.	Without	Able- bodied.	4 0	240	88 19			22	73		88	121	138
	Indians receiving rations	for labor.	Value of rations.	19					1,199	2773 421	505	13,594	12, 439	. 1,068 (i)
•	Indians	In return for labor	Number.	Ş	3				31	18	03	109	390	222
		.ie	Value of rations.	1,028 1,188 1,188 516 516 518	8,436	3,836 3,600	8,077		17,849	908 712 1,468	287 830 12,960	76, 752	33,963 879 5,179	10, 117 4, 598 22, 016
•		Total.	Receiving rations.	3832138 3832138	8	318	308		1,162	2222	176 176 755	2,840	ই	1,286
	Able	bodied adult Indians		44 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8	ജ	. 743	625	4,365	8888	2, 630 000 000	1,664	200 835 450	828
		States and reservations.		California—Continued. Greenville. Hoops Valley. Malf. Pala. Romd Valley. Tyle Plear.	Colorado	Southern Ute	Idaho: Ft. Hall	Michigan: Mackinac 3	Minnesota	Fond du Lac. Grand Portage! Leech Lake	Pipestone (Birch Cooley). Red Lake. White Earth	Montana	Blackfeet Flathead Fort Belknap	Fort Peck ³ . Rocky Boy's Agency. Tongue River.

Nevada	980'6	170	2, 100				170	2,100	156	819	117	450	6	2	981
Fallon Fort Mohemitt Monne River Nevada Walker River Western Shoshone Reno, Special Agent.	328 170 300 300 491 7,390	≋≥ 5%28	<u> </u>				25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	252 187 292 292 298	17 16 117	2	411	099	60	2 2 2	8:
New Mexico	7,779	922	16, 260	æ	2,677		180	13,583	88	5,786	180	2,963	8	8	2,833
Mescalero Mescalero Pueblo Bonito. Pueblo day schools	58 ² 8	218	12, 450 3, 601	8	2, 677		217	8,000 3,001	2225	4,4, 4,43 57,5 21,5 21,5 31,5 31,5 31,5 31,5 31,5 31,5 31,5 3	5 200	2,162 676 216	8	228	2, 400
North Carolina: Cherokee.	1,200	64		:			67	8	:						
North Dakota	2,708	1,325	22,775				1,325	22,775	6	231				6	23
Fort Totten Standing Rock * Turtle Mountain	1,200 1,308	1,000	20,281 20,000 404		•		1,000	20,000	1.6	182				1.6	3
Oragon	1,080	89	1,160			80	99	1,160	8	\$				8	3
Klamath ² . Siletr. Warm Springs	288	នង	228				*8	233	51 1	679 73				81-1	679 1.5
South Dakota	3,857	5, 707	177, 564	650	20,614	2, 554	2,503	156,960	830	67, 733	404	n.m	7%	171	46, 462
Cheyenne River Crow Creek Flandrean Lower Bruie. Pine Ridge Rogebud. Yankton	1,846 1,846 1,846 1,846	589 169 169 2, 208 2, 208	19, 407 8, 755 18, 414 2, 124 62, 818 62, 535 3, 511	246	18, 414 18, 414 1, 515 86	106 553 1, 878	25. 74. 26. 26. 26. 26.	19, 407 8, 156 2, 124 62, 818 61, 020 3, 425	14 82 831 150 831	22, 334 15, 122 163	909	11,271	144	24 33	30, 064 1, 063 15, 122 193
Utah	160	. 526	11, 805			900	88	11,806	647	18, 798			1239	8	18, 798
Shivwite	15.58	8 2	11,678			.009	8	11,678	នុគ្គ	18,508			£5	8	206, 18, 508
	Not	Not reported.				⁹ Estimated.	sted,					\$1917 r	11917 report.		

TABLE 16.—Indians self-supporting and Indians receiving rations and miscellaneous supplies during fiscal year ended June 30, 1918—Continued.

	4			Indians	Indians receiving rations	ations.				Indian	ns receiving	Indians receiving miscellaneous supplies	eous supp	ilee.	
States and reservations.	bodied adult Indians	Total.	la.	In return	In return for labor.		Without labor equivalent.	ilvalent.	Total.	Ţ,	In return	In return for labor.	Without	Without labor equivalent.	ifvalent.
	self-sup- porting.	Receiving Value of rations.	Value of rations.	Number.	Value of rations.	Able-bodied.	Dis- abled.	Value of rations.	Value of Receiving Value of rations. supplies.	Value of supplies.	Number.	Value of supplies.	Able-bodied.	Dis-	Value of supplies.
W1 thington	3,080	127	2,243	•	374	8	8	1,860	#	100			æ	•	100
Colvine. Cushman Neah Bay		224	222	eo .	284		257	San	2 21	77 80			13		14
Spokane Taholah ' Tulalip Valuma	25.55	# *	1,008 88 88	44	6	6	=8 ~ 5	1,98,2	90	8					88
Wisconstn	1,017	8 8	2,985	^	. 6£	. 69	: 28	3, 206	-	1,525					1, 525
Hayward. Keshena.		84	572 481	4	184	29		573		1, 425			€	€	1, 425
Lac du Flambeau Laona	285	8 °	1, 199	c	900		8	1, 199	1	130				-	100
Red Cliff	2	2	\$	•	3		01	\$							
Wyomin: Shoshone	300	ני	. 640				Ľ	5, 680							
			11917 report.	port					No.	Not reported.					

TABLE 17.—Indian and schoo' population, number eligible for school attendance, number in schools, etc., and capacity of schools provided for Indian children during fiscal year ended June 30, 1918.

Total capacity actions			63, 324	4,752	5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2,930	28 x x x x 2 x 3	
Capacity all schools.	Pub- lic		29, 406	19	: : : : : : : : : : : : : : : : : : :	1,820	5 % ZZZ 2 8	
	Mission and private.	Day.	1,174	235	3 88 83			
		Board- ing.	5,888	575	8 88 85 8 88 85	90		ornia.
	Government,	Day.	7,515	1,677	8 222 4 4 8 4 8 4 8 4 8	38	38 83	. 1916 report. Includes Indians from all over northern California
		Reservation board- ing.	19, 251	2,246	28 25 25 25 25 25 25 25 25 25 25 25 25 25	345	180	
Eligible children not in school.			22,973	6,436	3, 127 111 1, 427 1, 277 1, 27	925	10 828 10 828 10 10 10 10 10 10 10 10 10 10 10 10 10 1	all over
thain children enrolled in school.	Total in school.		63,476	5,685	8	3,000	888 3 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	llans from
	Public.		129, 496	19	9	1,830	31 21 21 22 22 22 38	1916 report.
	Mission and private.	Day.	23	83	24 142 188		1 1 1 1 1 1 1 1 1	191
		Board- ing.	4,837	618	200 200 49	125	-	
	Government,	Day. Total.	28, 521	4,815	25 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,745	និខម និន្និន ទី	
			6,215	1,68	487 487 577 577 577 577 577 577 577 577 578 578	3	82 22	- Pg
		Reservation poard-ing.	10,842	1,972	28,2 201 22,2 22,5 22,5 101 101	¥3	156	
		Non- resor- vation board- ing	11,464	1,218	287 247 247 179 179 27,73 185 185 185 185 185 185 185 185 185 185	98	R. → 8 2388	report
Elign- ble for attend- ance.			85,674	12, 121	110 351 671 45 27 27 24,286 31,675 306 306 306 11,288 1,288 1,288 1,288 1,288 1,288	4,424	888811. 1,984	out no
Ineligi ble for attend-s ance.			4,881	1,039	2.285 2.285	213	-22222	sc pools
Num. ber of school			90, 565	13, 160	114 958 958 958 958 1,073 1,500 1,300 1,200 958 1,300 1,200	4,687	82 m m 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	public
Indian popula- tion.			309, 755	44,499	2, 184 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	322,01	2, 8,2,2,5,5,8,8,4,	11 080 11 11
	States and superintendencies.			Arizona	Camp Verde Colorado River Fort Apache. Bavasupal Kalbab Leupp Moqui. Navalo Pima Salt River San Carlos San Xavier Truxton Canyon Western Navajo	California	Bishop Campo Diggar Fort Bidwell Fort Yuma Greenville Hoops Vallev	Includes those in public schools but not reported : 1917 report

TABLE 17.—Indian and school population, number eligible for school attendance, number in schools, etc., and capacity of schools provided for Indian children during fiscal year ended June 80, 1918—Continued.

							dian c	hildren	Indian children enrolled in school.	I in seb	18				Canaci	Canacity all achools.	hools.		
		Num-	Ineligi	Eligi-		Government.	ment.		Mission and private.	and te.			Eligible	Government.	ment.	Mission and private.	te.		Total
Btakes and superintendendes.	popula- tion.				Non- reser- vation board- ing.	Reser- vation board- ing.	Day.	Total.	Board- ing.	Day.	Public.	Totalin school.	not in school.	Reservation board- ing.	Ď.	Board- ing.	Day.	Pub- lio.	schools.
California—Continued. Fala Pala Round Valley Soboba Tule River Sastered	20,1,28,8 818,1,88,8	151 252 253 253 253 253 253 253 253 253 253	සියපසිය	325228 325228	288828		8228	21112 221128	3 3 3		8883	2022 88	2254		8258	100		8882	152 123 121 121 122 123 123 123 123 123 12
Colorado	877	310	13	520	8	19	7	ZZ.		:	13	253	124	28	:8			13	118
Southern Ute	388 208	95 EG	≎ å	88	67	5	22	88			13	88	121	8	នង			22	88
Florida: Seminole	288	3. S	Ş	3 8		Ę	9	Ę	\$:	- 8	1 3	21 2	ş	8	9	8	1 60	~ 8
Coeur d'Alene Fort Hall Fort Lapwal		<u> </u>	888	E 222	8 222	1 1 1 1 1 1	8 52	882	828	9 :9	#E 2	282	8 8 8	88	88	888	8 8	# R 8	8 E 3 3
Iows: Sac and Fox	356	119	2 %	112	17	1113	8	204			2	387	88	8 5	٤			8	9 5
Klekapoo Pottawatomie Scattered	777	188 E	°8	1388	842	80		35 & EE			25.2 98.	232 142 13	8	E				8.3	158
Michigan: Mackinac	1,007	1 687	86	98	1416	<u>:</u>		• 415	213		8	ş		1	Ī	22		8	3

2, 180	280 222 216 28 28 1,065	2,379	25 45 45 45 45 45 45 45 45 45 45 45 45 45	98	378	917	3 884558 3	2, 236	1,356 230 230 238	٠ <u>٠</u> .
998	87.83.88 80.83.88	2	1949 1949 1949 1949 1949	281	35	28	1 1 3	61	4 3	n. B. De 10, Aris
-		170	13.0	R	ង	:		2	2 8	rankto , Nave
300	130	8	252855 252855 8	183	182			375	375	' under)
327	20 80 173	303	8 58%%	i		\$	888 88	1,080	932	e, now
289	156 110 280 280	153	25 E E E E E E E E E E E E E E E E E E E			8	٤.	8	252 28	1 Sante ooth m
738	120 160 508 508	245	83 183 183 183 183 183 183 183 183 183 1	274	193 81	22	1 2 4 7 4 4 5 9 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8	3, 196	28.58.58 28.58.58 24.	Includes 20 from Santes, now under Yankton, S. Dak Estimated. 70 attend Rehoboth mission boarding, Navalo, Aris.
2, 684	372 88 348 180 59 59 1, 227 53	2,483	SETES SE	82	2888	1,261	512 513 72 72	3,293	2, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	• Incluc • Estin u 70 att
606	256 257 857 45 28 28 509	2	107 194 197 112 161	81	115	8	82 T 82	91	4 5	ģ
::		137	187	18	81	i		32	2 0	ols. ervatio
300	95	33	8.00	82	9 121			369	(ii) 8688	Vermillion Lake School. So Cass Lake. Grow and Fort Belinap boarding schools. St. Augustine mission, Winnebago reservation
1,506	= x x x = x x x x x x x x x x x x x x x	1,249	28.22.22.22	299	21 22 22 22	869	ន្តន្ត និង	2,872	5824584 5824584	p board
247	88 41 49 40 40 41 40	88	8 67.5	_	Īij	250	685 82	1,165	25 S	Selkma Jeston,
780	192 178 261 261	629	25 75 E 25			88	8 8	223	97 114 197 288 116	Attend Vermillion Lake School Includes Cass Lake. Attend Crow and Fort Belkmap Attend St. Augustine mission,
\$	8.00 m 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	28	222283088	30	2522	388	8202528	288	2822782	Cass Le
8, 407	188 188 188 188 188 188 188 188 188 188	3,027	26.12.25. 26.12.	8	<u>‡\$</u> 8	1,972	75 19 118 118 124 1,350	6, 487	2,2,900 2,500 4,50	Attend Vermillion Includes Cass Lake Attend Crow and F Attend St. Augusti
378	28 11 11 30 30	306	8354885	15	22	193	190 H	8	256 256 11 110 110 110 110 110 110 110 110 110	4444
3,786	26.24.25.25.25.25.25.25.25.25.25.25.25.25.25.	3,332	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	25	និនិង	2, 166	58881 881 881 881 881 881 881 881 881 88	7,383.	1,256 2,416 557 7,700 7,700 7,700 7,700 7,700	ion. I.
13,003	1,067 1,736 1,736 1,496 6,555	12,079	2,1,2,1,4, 1, 26,2,4,2,4,2,4,2,4,2,4,2,4,4,4,4,4,4,4,4	2, 463	1,377	7,964	5, 50 5, 100 5, 100 100 100 100 100 100 100 100 100 100	21, 186	62,896 1,896 1,815	l reservation ool, Malki. ation.
Minnesota	Fond du Lec Grand Fortage Lech Lake Nett Lake Pipestone (Birch Cooley). Red Lake White Earth Scattered.	Montans	Blackfeet Crow Flished Fort Belginap Fort Peck Rocky Boy's Agency Tongue Rivet	Nebraska.	Omaha. Winnebago. Scattered	Nevada	Fallon. Fort McDermitt Moaps River. Nevads. Walker River. Western Shoshone. Reno, special agent	New Mexico	Mecalero Mecalero Pueblo Bonito Pueblo day schools San Juan Zuni Besttered	8 X P

TABLE 17.—Indian and school population, number eligible for school attendance, number in schools, etc., and capacity of schools provided for Indian children during fiscal year ended June 30, 1918—Continued.

	Total capecity	schools.	8	574	1, 461	136 223 542	014	24,000	102 200 1,016 124 125 140 174 174 831	3,640
		Pub- lic.	88	\$	262	6	3	20,400	28 5288 2	1.733
hools.	and ste.	Day.								
Capacity all schools.	Mission and private.	Board- ing.			154	æ 8		%	7.5 80 200	325
Capac	ıment.	Day.		52	8	174	3	જ	3	જ
	Government,	Reservation board-ing.		160	828	22.22		2,604	90 150 613 613 115 80 100 100 100 110	1,527
	Eligible children	school.		22	998	22 28	#/S	5, 234	328 328 62 16 16 16 16 16	910
		Total in school.	166	674	1,968	888	28	25,744	151 1,189 1,189 104 186 348 348 368 151	4, 230
hool.		Public.	88	\$	25	6	2	20,400	25 25 25 25 25 25 25 25 25 25 25 25 25 2	1,783
d in sc	n and ate.	Day.								
Indusa children enrolled in school.	Mission and private.	Board- ing.			139	17.	<u> </u>	813	19 44 112	175
childrei		Day. Total.	138	94	1,577	5288	38	4, 532	139 223 7285 150 122 122 121 233 136	2,332
nenpu	ment.			113	88	8 118	3	14	74	Ξ
	Government	Reservation board-ing.		264	88	28	Ř	1,716	128 128 128 128 128 128 128 128 128 128	1,716
		Non- reser- vation board- ing.	138	æ	319	5872	38	2,802	82°588983588	902
	Eligi- ble for	attend- ance.	138	968	2,884	282	8	30,947	221 319 1,512 796 166 202 349 202 202 577	4,818
		attend-:		8	113	8228	8	285	76680018089	3 65
		8ch001 8ge.	138	916	2,947	2883	, 8 8	31,212	238 1,585 171 171 206 280 280 210 508	5,083
	Indian popula-	tion	5,982	2,343	8,940	1, 204 83, 456 83, 456	, 2, 286 84	116, 494	780 1, 253 4, 583 2, 186 524 716 1,080 683 747 777 1,707	14,988
	States and sunarintandandes		New York: Scattered	North Carolina: Cherokee	North Dakota	Fort Berthold Fort Totten Standing Rock	Scattered	Oklahoma	Cantonment Cheyenne and Arnpaho Klowe Klowe Coage Coage Coroe Fawmee Force For	Total

30,360	9,712 2,730	4, 8, 28, 8, 28, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8	2,251	1,500 114 114 130	4,043	265 157 107 1,881 1,196 252 490	213	\$48	1,870	252 157 167 268 268 288 288	ᅧ
18,668	9,552	8,6, 8,0,8	1,636	1. 500 2.25	8	165 7 7 197 198 198 198	۶	8 8	3	232°° 88	listed in Nebraska Winnebago. tion.
											sted in Vinnel on.
615	, { 185	130	150	150	28	75 240 396 125			8	180 70	⁹ Includes Santes, formerly listed in Net ¹⁰ Does not include 20 under Winnebago. ¹¹ Includes pupils off reservation.
			51	8 8 8	1,208	8 553	8	88	949	38888 8	tee, for lude 20 Us o:7 r
1,077	8 8	555 100 100 100	8	21 20	1,620	180 220 220 220 220 220 220 220 220 220 2	67	67	311	130	les San not incl les pup
4,624	2,771	1, 148 8 8	88	2188818 8118	1	104 115 88 88 188 88 88 88	147	£ 88	88	472 82.28 89.28 89.	Fincho Does 1 11 Include
21,363	10,017	8,673 8,557 878 162	2,271	1,500 1,500 102 138 138	5, 180	222 222 223 101 101 1,396 1,396 1,296 1,296 1,296 1,36	8	885	2, 167	25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5	Jed.
18,668	9,552 2,164	8,080, 8,080 8,080	1,626	1, 500 20 62	288	165 28 7 194 196 149 240	2	88 98	663	197 245 37 8 8 8 307	Potawatomi not included. Private school. Includes Choctaw publis. Includes 30 from Rosebud.
											school se School se 30 fre
687	, (*140 837	160	25	23	9230	75 en 286 986 986 986			177	76	Potawa Private Include
2,048	466 186	884 188 152 152 153	282	8 8 8 8 9	3,875	358 1, 108 2, 108 32, 257 2, 287 2, 281	157	20 137	1,327	195 121 121 126 136 136 146 146	
			8	8 9 61 8 61	8	SI 958	18	18	436	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	lotten.
			317	8 28	1,302	191 112 105 821 828 166 140	105	106	408	262 141	ı Fort Tottan
2,048	465 186	2 68888	38	a aa∞e	1,180	36832828 3682828	*	~ 5	488	85522273 3	see from
25,977	12, 788 3, 262	4.4. E5.48	3,094	28.00 128 128 170 170 170	5,961	25 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	380	19g 08	2,878	767 174 188 136 335 835 149	m to those
			28	* * 5400	184	15% co 28 55 55	8	7	168	8222233	addition
26, 977	12,788 3,262	4,705 4,705 153 153	3,179	2, 37 2, 000 141 107 107	6, 448	265 265 72 170 1,848 1,424 675 1,106	405	28 S	3,046	*200 *210 *210 *200 *200 *200 *200 *200	ation in
101, 506	41,824	26,828 18,761 3,127	9, 567	1,160 5,260 1,220 822 222	22,579	2,845 970 203 7,340 5,521 3,117	1,704	423 119 1, 162	11,082	2,586 2,143 6,22 6,04 1,358 1,358 1,000	off reservation in
Oklahoma—Continued. Five Cyritzed Tribes	Cherokee Nation	Chootaw Nation Creek Nation Seminole Nation Scattered	Oregon	Klamath Roseburg Suletz Umatilla Warm Springs	South Dakota	Cheyenne River Crow Creek Fandreau Lower Brule Plune Ridge Roeebud Sisseton Yankton Scattered	Utah	Goshute. Shivwits. Uintah and Ouray	Washington	Colville. Culshinan Neah Bay Spokane. Taholah Tulalip Yakima Souttered	Includes 33 pupils from of 1917 report. Eurolled at Fort Totten. Attend Shawnes schools.

Table 17.—Indian and school population, number eligible for school attendance, number in schools, etc., and capacity of schools provided for Indian children during fiscal year ended June 30, 1918—Continued.

	Total capacity		475 2, 296	38 88 173- 98 173- 47 207 40 730 141 331	66 465		8, 400
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shools	n and ate.	Дау.	8	81 82			
Capacity all schools.	Mission and private.	Board- ing.	\$	59 008 007 7	3		
Capac	ment.	Day.	. 8	74 80 80	35		
3	Government.	Reservation poerd-	470	091 091 041	135		8, 490
	Eligible children	not in school.	765	23 28 28 28 28			
		Totalin school.	2, 290	67 367 196 196 85 86 546 165 178	475	302	318
nool.		Public.	475	138 98 64 64 141 17	\$		
I in sc	snd te.	Day.	186	87 85 34			
Indian children enrolled in school	Mission and private.	Board- ing.	311	* 255 * 55 88 89	167		
childrer		Day. Total.	1,318	22 262 144 144 371 80 81	243	800000000	318
ndian	ment.		110	23.	12		
ı,	Government	Reser- vation board- ing.	503	181	111		
		Non- reser- vation board- ing.	202	32242222 3224222	3	Seauchan	318
	Eligi- ble for	attend- ance.	3,017	1340 409 564 106 106 251 898 196 196	475	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	318
		stiend- snœ.	908	4288u644	2		
	Num- ber of	school age.	3,223	1 382 543 108 108 326 200 200 57	95	88888	318
	Indian	tion.	9,696	1,372 1,276 1,758 1,758 355 1,054 2,610 527	1,696		
	States and suredutendanda		Wisconsin	Grand Rapids Hayward Hayward Keshena. Keshena. Lac du Flambeau La Pointe Oneida. Red Cliff Red Cliff	Wyoming: Shoshone	Alaska Milinds Malio Massachuetts Missachuetts Perus vivania Porto Rico	Capacity of nonreservation achools

· Attend Lac du Flambeau school.

* Attend St. Mary's school.

² Includes pupils of reservation.

1 1917 report.

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50	Total Indian children elig	ernment schools: Nonreservation boarding Reservation boarding Day	schools: iract boarding. contract— Boarding.	8	Sept B obj	
8 8	Ind	t sclarva	trock to be	98 89 18 8	ila g	
ब्रुब्र	9	nen	da si	Cho	ota] r eli	1
Indian children of subcol age	H	Nor. Res Day	S S S S S S S	vate Viics	E Pa	
		Government schools: Nonreservation boarding. Reservation boarding. Day.	Mission schools: Contract boarding. Noncontract— Boarding.	Private schools: Contract boarding.	Total all classes Number eligible children not in	
	826	307°—IN		OL 2-	12	

* The total enrollment of pupils in school is larger than the actual enrollment because it contains the enrollment of pupils of reservations and in hospital—sanatoris who are given some scademic instruction and are not included in the eligible for school attendance column in this table.

TABLE 18.—Location, capacity, enrollment, and attendance, etc., of schools during fiscal year ended June 30, 1918.

Superintendencies and name of schools.	Capac- ity.	Total enroll- ment.	Average enroll- ment.	Average attend- ance.	Class of school.
Grand total	83, 828	33, 980	29,064	23, 822	•
Arizona	5, 633	5,388	4,904	4, 286	
Camp Verd: superintendency	60	57	52	42	
	30	21	19	16	Day.
Camp Verde Clarksdale	80	36	33	26	Do.
Colorado River	80	84	79	76	Reservation boarding.
Fort Apache superintendency	372	426	407	872	
Fort Apache	200	267	257	241	Do.
Canon	42	38	38	34	Do, Day, Do,
Cibecue.	50	88	81	28	μο,
East Fork	40 20	41	39 21	85 17	Do. Mission day: Evangelical Lu-
		21			theran.
East Fork	20	21	21	17	Do,
Fort Mohave	200	155	134	117	Nonreservation boarding.
Havasupai Kaibab	35 22	84 22	29 18	26 14	Day. Do.
Leupp superintendency	183	112	109	104	•
	163	103	100	95	Reservation boarding.
Leupp	20	9	100	*0	Mission boarding; Evangelical Lutheran.
Mequi superintendency	499	437	419	278	
Moqui ¹	125				Reservation boarding.
Chimopovy	50	39	39	18	Day.
Chimopovy Hoteville-Bicabi	50 72	137	129	89	Day. Do.
UMIDI	80	71	70	49	Do.
Polacca	100	124	115	74	Do.
Second Mesa	72	66	66	48	Do.
Navajo superintendency 2	1,076	1,086	971	886	
Navajo	850	302	268	257	Reservation boarding.
Chin 1.66	166	195	162	142	Do.
	250	215	196	188	T -
Cornfields Luki Chuki	25	i 200	1 27	16 13	Day. Do. Do. Do.
Luki Chuki	60	27	22	13	Do.
Ganado. Rehoboth	35	47	42	38	MIRRIOD (18A. LLGROAMSTONET)
	40	70	69	68	Daformed
St. Michael's	150	200	185	169	Mission boarding; Catholic.
Phoenix	700	780	714	650	Nonreservation boarding.
Pima superintendency	834	876	802	688	
Pima	218	289	257	223	Reservation boarding.
Blackwater	36	40	37	25	Day.
Casa Blanca	40	l ãõ	51	36	Do.
Chiu Chuischu	40	19	16	10	Do.
Cocklebur	40	1 200	19	5	Do.
Gus Bend	1 30	28 32	i 28	15	Do.
Gus Crossing	40	32	l 31	27	Do.
Maricopa	40	28	27	25	Do.
Q1121018	40	16	16	9	Do.
	40	35	29	25	Do.
St. Ann's (Guadalupe) St. John's	35 235	19 290	16 280	10	Mission day; Catholic. Mission boarding; Catholic.
Rice Station.				278	<u>.</u>
	216	225	212	197	Reservation boarding.
Salt River superintendency		110	105	92	D
Camp McDowell ¹	40 88	76	75	68	Day. Do.
Lehi	30	34	30	24	Do.
					

¹ Not in operation.

¹¹⁹¹⁷ report.

Table 18.—Location, capacity, enrollment, and attendance, etc., of schools during fiscal year ended June 30, 1918—Continued.

·					
Superintendencies and name of schools.	Capac- ity.	Total enroll- ment.	Average enroll- ment.	Average attend- ance.	Class of school.
Arisone Continued.					
San Carlos superintendency	165	252	196	162	
San Carlos	100	117 100	95	88	Day.
BylasRice,	40 25	35	82 82	51 23	Mission day; Evangelical Lu- theran.
San Xavier superintendency	520	401	349	295	
San Xavie	155 30	121 32	103 32	92	Day. Do.
Santa Kosa	30 35	45	27	11 18 13	Do.
Tueson	35	31	19	13	Do.
Vamori. Lourdes	40 30 30	83 23	29 23	24 23	Do. Mission day; Catholic.
St. Anthony's	30 20	16 22	16	16 22	Do
San Miguel San Salano	20	29	20	27	Do. Do.
Tucson	130	49	49	49	Mission boarding; Presbyte- rian.
Truxton Canon	140	101	100	94	Reservation boarding.
Western Navajo superintendency.	373	230	208	193	
Western Navajo	308 30 35	161 30 39	142 28 38	130 25 38	Do. Do. Day.
California.	1,948	2,034	1,725	1,321	
Bishop superintendency	140	98	80	65	
Bishop	60	43	84	26	Do.
Bishop. Big Pine. Independence.	30 20	20 15	16 13	15	Do. Do.
Pine Creek	30	20	17	111	Do.
Campo	30	16	14	13	Do.
Fort Bidwellsuperintendency	118	110	98	82	
Fort BidwellLikely	98 20	96 14	90 8	76 6	Nonreservation boarding. Day.
Fort Yuma superintendency	220	168	167	159	
Fort YumaCocopah	180 40	156 12	155 12	149 10	Reservation boarding. Day.
Greenville. Hoopa Valley. Mairi uperintendency: St. Boniface.	90 165 100	144 187 125	110 138 125	86 114 90	Nonreservation boarding. Reservation boarding. Mission boarding; Catholic.
Pala superintendency	98	78	66	52	
Pala	30	27	24	20	Day.
Capitan Grande	24 30	14 20	11 19	8	Do.
La Jolia Rincon	14	12	12	10	Do.
Round Valley superintendency	191	118	110	56	
Round Valley	80	50	49	24	Do.
Potter ValleyUkiah	16 25	10 19	16	10	Do. Do.
Yokaia	40	16	16	6	Do.
Upper Lake	650	23 884	715	10	Do.
Sherman				541	Nonreservation boarding
Soboba superintendency		32	30	26	_
Mess Grande Volcan	30 30	14 18	13 17	13 13	Day. Do.
	•				

¹ 1917 report.

TABLE 18.—Location, capacity, enrollment, and attendance, etc., of schools during fiscal year ended June 30, 1918—Continued.

Superintendencies and name of schools.	Capac- ity.	Total enroll- ment.	Average enroll- ment.	Average attend- ance.	Class of school
California—Continued. Tule River superintendency	86	79	72	87	Day.
Tule RiverAuberryBurrough	30 32 24	23 81 25	20 28 24	7 17 18	Do. Do. Do.
Colorado	105	102	91	75	
Southern Ute superintendency	80	80	72	61	
Southern UteAllen	50 30	61 19	54 18	45 16	Reservation boarding. Day.
Ute Mountain	25	22	19	14	Do.
Idaho	590	493	393	288	
Coeur d'Alene superintende 179.	140	108	91	67	
Kalispel Kootenal De Smet.	30 30 80	22 25 56	21 24 46	11 15 41	Do. Do. Mission boarding; Catholic.
Fort Hall superintendency	270	205	164	119	minimum boarding, , ogenous.
Fort Hall.	200	155	115	88	Reservation boarding.
Skull Valley	20 30 20	12 22 16	11 22 16	7 16 8	Day. Mission boarding; Episcopal. Mission day; Presbyterian.
Fort Lapwai superintendency	180	185	138	102	
Sanatorium and school St. Joseph's	80 100	123 62	89 49	70 82	Boarding. Mission boarding; Catholic.
Iowa	150	175	169	150	
Sec and Fox superintendency	150	175	169	150	
Sanatorium and school Fox	80 40 30	113 28 34	113 24 32	110 16 24	Boarding. Day. Do.
Kansa	771	1,031	865	684	
Haskeil	700 71	922 109	771 94	595 89	Nonreservation boarding. Reservation boarding.
Michigan	702	582	529	490	
Mackinac superintendency	352	213	192	183	
Baraga (Holy Name)	152	80	66	60	Mission boarding and day
Harbor Springs (Holy Child-hood).	200	183	124	123	Catholic. Mission boarding; Catholic.
Mount Pleasant	350	360	337	307	Nonreservation boarding.
Minnesota	1, 423	1,431	1,171	929	
Cass Lake	40	63	46	40	Reservation boarding.
Fond du Lac superintendency	74	39	31	17	
Fond du Lac Normantown	40 84	24 15	19 12	9 8	Day. Do.
Grand Portage	20	14	12	10	Do.
Leech Lake	116 60	129 49	86 43	65 31	Reservation boarding. Day.
Pipestone	212	195	164	145	Nonreservation boarding.
Red Lake superintendency	238	294	256	184	Passeration boarding
Red Lake Cross Lake St. Mary's	75 93 70	167 92 95	89 79 88	58 57	Reservation boarding. Do. Contract Mission boarding Catholic.

Table 18.—Location, capacity, enrollment, and attendance, etc., of schools during fiscal year ended June 30, 1918—Continued.

Superintendencies and name of schools.	Capac- ity.	Total enroll- ment.	Average enroll- ment.	Average attend- ance.	Class of school.
Minnesota—Continued. Vermillion Lake.	110	128	118	103	Reservation boarding.
White Earth superintendency	553	520	415	834	,
White Earth	250 30 30 53 53	261 40 12 30	181 84 11 82 17	137 28 9 25	Do. Do. Do. Do. Do.
Twin Lake	30 130	82 114	31 109	22 101	Do. Contract mission boarding:
Montana	1,833	1,552	1,304	1,059	Catholic.
Blackfeet superintendency	849	817	226	181	
Blackfeet	144 30 30 145	181 21 25 90	128 16 22 60	108 11 17 50	Reservation boarding. Day. Do. Mission boarding; Catholic.
Crow superintendency	442	815	291	248	
Crow Pryor Creek Black Lodge	100 47 30	70 47 27	63 46 27	52 39 25	Reservation boarding. Do. Mission day; American Missionary Society.
Lodge Grass Reno	50 35	81 45	26 45	21 84	Mission day; Baptist. Mission day; American Mis-
8t. Ann's. San Xavier Wyols	25 125 30	17 61 17	17 52 15	15 50 12	sionary Society. Mission day; Catholic. Mission boarding; Catholic. Mission day; Baptist.
Flathead superintendency: St. Ignatius.	300	186	163	145	Mission boarding; Catholic.
Fort Belknap superintendency	251	262	·213	172	
Fort BelknapLodge PoleSt. Paul's	51 40 160	121 84 107	98 24 91	83 13 76	Reservation boarding, Day, Mission boarding; Catholic,
Fort Peck superintendency	250	262	230	197	
Fort Peck No. 1 No. 2 No. 4 Wolf Point	120 30 30 30 30 40	129 22 27 18 66	117 19 21 16 57	107 14 12 13 51	Reservation boarding. Day. Do. Do. Do. Mission boarding and day. Presbyterian.
Rocky Boy's 1	25				Day.
Tongue River superintendency	216	210	181	116	
Tongue RiverBirney. Lamedeer. St. Labre's.	69 47 40 60	81 46 43 40	72 40 84 - 35	47 23 23 23	Reservation boarding. Day. Do. Contract mission boarding; Catholic.
Nebraska	607	615	520	886	одини.
Genoa	400	488	393	280	Nonreservation boarding.
Winnebago superintendency	207	127	127	106	
Winnebago Mission	60	60	60	57	Mission boarding; Dutch Reformed.
St. Augustine	122 25	49 18	49 18	37 12	Mission boarding; Catholic. Mission day; Episcopal.
Nevada	700	741	604	496	
Carson	336	408	337	267	Nonreservation boarding.
Fallon superintendency	65	49	39	83	
Fallon Lovelocks	40 25	30 19	28 16	20 18	Day.

Not in operation.

Table 18.—Location, capacity, enrollment, and attendance, etc., of schools during fiscal year ended June 30, 1918—Continued.

Superintendencies and name of schools.	Capac- ity.	Total enroll- ment.	Average enroll- ment.	Average attend- ance.	Class of school.
Nevada—Continued. Fort McDermitt	80 20 70 60	59 19 83 29	42 17 65 24	35 16 58 19	Day. Do. Reservation boarding. Day.
ency. Western Shoshone No. 1 Western Shoshone No. 2	35	4Q	34	27	Do.
· ·	34	54	46	41 2,609	Do.
New Mexico	2,967 400 108 100	3, 268 470 97 114	2,996 447 92 113	387 89 110	Nonreservation boarding. Reservation boarding. Do.
Pueblo Bonito superintendency	210	222	177	148	
Pueblo Bonito Pinedale	180 30	197 25	156 21	132 16	Day.
Pueblo day superintendency	1,341	1,365	1,242	1,010	
Albuquerque— Acomita. Encinal. Isleta. Laguna. McCarty's Mesita. Paguate Paraje San Felipe. Seama. Bernalillo.	32 30 120 34 38 86 60 20 28 125	26 25 126 53 34 34 76 39 63 40 104	23 22 112 47 27 30 72 35 60 35	19 17 98 40 24 63 29 47 30 92	Do.
Senta Fe— Cochiti Jemez. Picuris San Ildefonso San Juan Santa Clara Santa Domingo Sia Taos Jemez. St. Catherine's	28 120 24 40 74 95 98 97 94 95 95 95 95 95 95 95 95 95 95 95 95 95	31 110 22 19 59 65 80 16 78 5	26 92 22 18 50 56 68 16 63 5	24 69 21 15 44 44 64 13 88 4	Day. Do. Do. Do. Do. Do. Do. Do. Do. Mission day. Mission boarding; Catholic.
San Juan superintendency	230	298	249	232	
San Juan Tosdlens.	150 80	214 84	178 71	167 65	Reservation boarding. Do.
Santa Fe	350	410	386	351	Nonreservation boarding.
Zuni superintendency	228	292	290	282	
Zuni Zuni Christian Reformed	80 118 30	116 149 27	115 148 27	114 143 25	Reservation boarding. Day. Mission day; Christian Reformed.
North Carolina	310	877	319	236	ormed.
Cherokee superintendency	310	877	319	236	
Cherokee Big Cove	160 40	264 30	234 20	195 9	Reservation boarding. Day. Do. Do.
Little Snowbird	40 30	40 22	29 17	14 8	Do. Do.
Snowbird Gap	40	21	19	10	Do. Do.
North Dakota	1,489	1,749	1,353	1,019	
Bismarck 1	80	114	104	44	Nonreservation boarding.

Table 18.—Location, capacity, enrollment, and attendance, etc., of schools during fiscal year ended June 30, 1918—Continued.

Superintendencies and name of schools.	Capac- ity.	Total enroll- ment.	Average enroll- ment.	Average attend- ance.	Class of school.
North Dakota—Continued. Fort Berthold superintendency	184	121	114	96	
No. 1	30 36 30 75 13	10 19 21 43 28	8 16 19 43 28	6 13 16 36 25	Day. Do. Do. Mission boarding; Catholic. Mission boarding; Congrega-
Fort Totten	323	536	346	282	tional. Reservation boarding.
Standing Rock superintendency.	542	511	444	379	_
Standing Rock	202 100 40 40 30 40 24 50	245 84 38 33 15 23 5	212 78 28 26 14 18 5	182 70 24 15 12 13 4 48	Do. Do. Do. Do. Do. Do. Mission boarding; Episcopal.
Standing Rock Mission 1 Turtle Mountain superintend-	16	13	13		Mission boarding.
ency	160	229	163	92	_
No. 1 No. 2 No. 3 No. 4 No. 5	40 30 30 30 30	44 49 59 51 26	34 33 41 37 18	22 17 20 22 11	Day. Do. Do. Do. Do. Do.
Wahpeton	200	238	. 182	126	Nonreservation boarding.
Oklahoma	4,109	4,536	3,877	3, 431	
Cantonment	90 150 500	111 205 654	100 167 5 9 6	87 153 52 8	Reservation boarding. Do. Nonreservation boarding.
Kiowa superintendency	613	645	615	543	
Anadarko Fort Sill Rainy Mountain (Riverside	110 160 155 188	140 181 168 161	153 172 142 148	120 163 126 134	Reservation bearding. Do. Do. Do.
Osage superintendency Osage	115 75	128 19	109	86 11	Do. Contract Mission boarding Catholic.
Otoe Pawnes Ponca	80 100 90	90 59 103	83 55 90	79 52 77	Reservation boarding. Do. Do.
Seger superintendency	144	112	110	99	
Red Moon	79 65	98 14	96 14	88 11	Do. Day.
Seneca superintendency	150	183	162	148	
Seneca	100 50	139 44	120 42	110 38	Do. Contract Mission boarding: Catholic.
Shawnee superintendency	310	250	202	177	
Shawnee	110 100 100	138 50 62	111 34 57	91 30 56	Reservation boarding. Mission boarding; Catholic. Do.
Total, Western Oklahoma.	2,417	2,559	2,304	2,040	

Table 18.—Location, capacity, enrollment, and attendance, etc., of schools during fiscal year ended June 30, 1918—Continued.

Superintendencies and names of schools.	Capac- ity.	Total enroll- ment.	Average enroll- ment.	Average attend- ance.	Class of school.
Oklahoma—Continued. Five Civilized Tribes	1,692	1,977	1,573	1, 391	
Cherokee Nation: Cherokee Orphan School,	160	174	148	131	Tribal boarding.
Creek Nation	327	392	336	304	
Euches Eufaula Nuyaka	100 112 115	130 136 126	115 115 106	106 108 90	Do. Do. Do.
Chickasaw Nation	115	160	114	95	
BloomfieldEl Meta Bond College	80 85	116 44	80 84	67 28	Do. Contract; private boarding
Choctaw Nation	530	653	528	473	
Armstrong Male Academy.	100	129	96	81	Tribal boarding.
Jones Male Academy Tuskahoma Academy Wheelock Academy Old Goodland	100 110 100 80	123 123 118 101	99 105 99 81	86 99 89 72	Do. Do. Do. Contract mission boarding;
St. Agnes Mission	40	59	48	46	Presbyterian. Contract mission boarding; Catholic
Chickasaw and Choctaw Nation.	480	433	327	291	
Murray School of Agri- culture.	150	96	53	49	Contract private boarding.
Oklahoma Presbyterian College.	50	54	43	36	Contract mission boarding; Presbyterian.
St. Agnes Academy	160	192	148	126	Contract mission boarding; Catholic.
St. Elizabeth's St. Joseph's	70 30	68 23	62 21	60 20	Do. Do.
Seminole Nation: Mekusukey	100	165	120	97	Tribal boarding.
Oregon	1,275	1, 218	1,024	773	
Klamath superintendency	202	150	139	77	
KlamathModoc Point	112 30	109 18	93 16	54 7	Reservation boarding. Day. Do. Do.
No. 2 No. 3	30 30	13 19	12 18	6 10	Do. Do.
SalemSilets	650 50	758 16	633 10	492 7	Nonreservation boarding. Day.
Umatilla superintendency	243	160	129	106	
Umatilla St. Andrew's (Kate Drexel).	93 150	102 58	72 57	59 47	Reservation boarding. Mission boarding; Catholic.
Warm Springs superintendency	130	125	113	91	
Warm SpringsSimnasho	100 30	106 19	98 15	80 11	Reservation boarding. Day.
Pennsylvania: Carlisle South Dakota	757 4,028	789 4,128	689 3, 421	507 2,686	Nonreservation boarding.
Cheyenne River superintendency	200	213	172	141	
Cheyenne River No. 8	180 20	191 22	153 19	127 14	Reservation boarding. Day.
Crow Creek superintendency	157	155	121	96	
Crow CreekImmaculate Conception	82 75	112 48	80 41	63 83	Reservation boarding. Contract mission boarding: Catholic.
FlandresuLower Brule	360 100 250	406 105 274	333 79 236	238 70 195	Nonreservation boarding. Reservation boarding. Nonreservation boarding.
					-

Table 18.—Location, capacity, enrollment, and attendance, etc., of schools during fiscal year ended June 30, 1918—Continued.

you of					
Superintendencies and name of schools.	Capac- ity.	Total enroll- ment.	Average enroll- ment.	Average attend- ance.	Class of school.
South Dakots—Continued.					
Pine Ridge superintendency	1, 187	1,150	914	681	
Pine Ridge	210	321	249	183	Reservation boarding.
No. 1	25	28	18	15	Reservation boarding, Day, Do, Do,
No. 4	30	16	13 35	11	Do. Do.
No. 5	30 30	38	20	26	Do.
No. 7	33	28	2∡	15	Do.
No. 9	30	29	35	15	Do.
No. 10	33	21	16	11	Do.
No. 12	30	16	11	6	Do.
No. 13	24	15	13	7	Do.
No. 14	22 24	22	18 17	14	Do. Do.
No. 15	36	32	24	ii	Do.
No. 17	30	24	l 2î	18	Do.
No. 18	33	21	17	13	Do.
No. 19	30	26	18	11	Do.
No. 20	24	19	16	11	Do
No. 21	30	23	18	12	Do.
No. 22	27	16	10	7	Do.
No. 23	30 33	14 25	10 19	7 12	Do. Do.
No. 24 No. 25	30	8	18	1 5	Do.
No. 26	30	24	19	12	Da
No. 27	20	16	14	1 7	Do.
No. 28	23	15	18	10	Do.
No. 29	30	14	12	9	Do.
No. 30	20	18	13	6	Do.
Holy Rosary	240	269	228	206	Contract Mission boarding
Rapid City	300	344	277	200	Catholic. Nonreservation boarding.
Rosebud superintendency	1,001	975	864	716	
Rosebud	200	268	244	213	Reservation boarding.
Blackpipe	200	31	20	13	Day
Corn Creek	40	27	17	12	Day.
Cut Meat	24	22	17	13	Do.
He-Dog's-Camp	27	23	20	19	Do.
Ironwood	24	12	11	.9	Do.
Little Crow's Camp	26	14	14	12	Do.
Milk's Camp Oak Creek	29 26	20 22	17 20	13 15	Do.
Pine Creek	25	25	21	16	Do. Do.
Red Leaf.	23	8	7	6	Do.
Rosebud	25	Ď	8	7	Do.
Spring Creek	26	17	16	14	Do.
Upper Cut Meat	21	10	9	1 .8	Do.
Whirlwind Soldier	26	19	14	10	Do.
White Lake	19 25	14	14 17	11 15	Do.
WoodSt. Mary's	70	56	53	46	Do. Mission boarding; Episcopal.
St. Francis's	325	360	325	263	Contract Mission boarding; Catholic,
Sisseton's superintendency	173	185	157	134	
Sisseton	133	165	140	121	Reservation boarding.
Sisseton Day	40	20	17	13	Day.
8pringfield	60	69	64	58	Nonreservation boarding.
Yankton superintendency	240	252	204	158	
Yankton	115	140	116	76	Reservation boarding.
Sentee Normal Training	125	112	88	82	Mission boarding and day;
Utah	137	123	103	66	Congregational.
Goshute 1	30				Day.
Shivwits	40	18	18	13	D0.
Uintah	67	105	. 85	53	Reservation boarding.
Washington	1,567	1,573	1,211	844	_
Colville superintendency	355	234	196	155	
No. 1	25	12	10	7	Day.
No. 3	30	46	33	26	Do Do
No. 4	30	34	23	17	Do.
No. 5	30	17	14	9	Do.
No. 6	25	7	4	4	Do.
No. 9	25	17	16	14	Do.
Sacred Heart	90 100	39 62	39 57	22 56	Mission boarding; Catholic.
St. Mary's				- 56	Do.
ı	in	ot in or	eration	,	•

Not in operation.

TABLE 18.—Location, capacity, enrollment, and attendance, etc., of schools during fiscal year ended June 30, 1918—Continued.

yeur ei	3000 Ju	, , , , , , , , , , , , , , , , , , ,	1918	OHMHUO	4.
Superintendencies and name of schools.	Capac- ity.	Total enroll- ment.	Average enroll- ment.	Average attend- ance.	Class of school.
Washington—Continued. Cushman superintendency	545	690	523	376	
Cushman Chehalis ¹	350 30	557	400	279	Nonreservation boarding. Day. Do. Do.
Jamestown	30	18	14	13	Do.
Port Gamble Skokomish	25 40	19 20	13 20	10 16	Do. Do.
St. George's	70	76	67	58	Mission boarding; Catholic.
Neah Bay superintendency	120	102	90	49	
Neah Bay Quileute	60 60	62 40	54 36	20 29	Day. Do,
Spokane superintendency	90	51	48	22	
No. 1	33	16	15	10	Do.
No. 1 No. 2	32	25	25	9	Do.
No. 8	25	10	8	8	Do.
Taholah superintendency	76	46	41	32	
TaholahQueets River	36 40	41 5	36 5	29 8	Do. Do.
Tulalip superintendency	250	309	234	169	
Tulalip	180	262	195	145	Reservation boarding.
TulalipLummi	40	28	22	10	Day.
Swinomish	30	19	17	14	Do.
Yakima	131	141	79	41	Reservation boarding.
Wisconsin	2,327	1,710	1,499	1, 243	
Hayward's superintendency	306	358	277	212	
HaywardLa Courte Oreille	281 74	298 60	224 53	170 4 2	Nonreservation boarding. Day.
Keshena superintendency	590	542	485	396	,
Keshena	170	181	144	102	Reservation boarding.
Neopit	80	21	15	11	Day.
St. Joseph's	220	253	239	215	Contract Mission boarding Catholic.
St. Anthony's	120	87	87	68	Mission day; Catholic.
Lec du Flambeau	160	168	150	131	Reservation boarding.
La Pointe superintendency	690	90	90	75	•
Odanah Mission St. Mary's	490 200	65 25	65 25	50 25	Mission day; Catholic. Mission boarding; Catholic.
Oneida superintendency	190	188	181	170	
• Oneida	140	154	147	136	Reservation boarding.
Adventist Mission	25 25	18	18	18	Mission day; Adventist. Mission day; Episcopal.
Hobart Mission	20	16	16	16	Mission day; Apiscopai.
Red Cliff superintendency	117	62	59	53	
Red Cliff Bayfield (Holy Family)	52 65	29 33	26 33	20 33	Day. Mission boarding; Catholic.
Tomah	275	302	257	206	Nonreservation boarding.
Wyoming	400	365	297	244	
Shoshone superintendency	400	365	297	244	
Shoshone	135	177	111	77	Reservation boarding.
ArapahoSt. Stephen's	25 120	21 77	21 75	15 66	Day. Contract Mission boardin
Shoshone Mission	20	16 74	16	15	Catholic. Mission boarding; Episcopal.
St. Michael's	100	"	74	71	Contract Mission boarding Protestant Episcopal.

¹ Not in operation.

TABLE 19.—School statistics for 42 years.1 INDIAN SCHOOLS AND AVERAGE ATTENDANCE FROM 1877 TO 1918.

	Boardin	ng schools.	Day	ehools.	T	otal.
Year.	Number.	Average attendance.	Number.	A verage attendance.	Number.	Average attendance.
1877. 1878. 1879. 1880. 1885. 1885. 1890. 1895. 1900. 1910. 1911. 1911. 1914. 1914. 1915. 1916. 1916.	52 60 114 40 157 153 167 158 158 168 170 188 188 188 188	6, 201 9, 865 15, 081 17, 708 21, 812 20, 106 18, 774 20, 907 20, 858 20, 702 420, 083 420, 388 419, 395	102 119 107 109 86 106 125 154 145 227 227 242 230 233 228 238 234 224	1, 942 2, 367 1, 127 3, 860 3, 643 4, 873 5, 308 5, 223 5, 229 5, 220 4, 925 4, 427	150 168 159 109 200 246 282 307 312 385 383 412 398 399 398 400 394 384	3, 568 4, 42 4, 461 4, 661 12, 232 11, 188 21, 568 24, 944 23, 647 26, 283 25, 283 26, 137 26, 138 21, 22, 23 22, 23 23, 24 24, 24 25, 283 25, 283 26, 283 26, 283 27, 283 28, 283 283 283 283 283 283 283 283 283 283

APPROPRIATIONS MADE FOR SCHOOLS BY THE GOVERNMENT SINCE 1876.

Year.	Appropria- tion.	Per cent increase.	Year.	Appropria- tion.	Per cent increase.
1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1884. 1885. 1886.	30,000 60,000 75,000 75,000 135,000 487,200 675,200 992,800 1,100,065 1,211,415	50. 00 100. 00 25. 00 280. 00 38. 00 47. 00 10. 00 12. 60	1900	3,080,367 3,244,260 3,531,250 3,522,960 3,880,740 3,777,100 3,925,830 4,105,715 4,008,825 3,757,909 3,885,290	11. 28 4. 91 5. 82 8. 84 1. 23 10. 15 12. 67 2. 36 4. 58 12. 36 16. 26
1889	1, 364, 568 1, 842, 770 2, 291, 650 2, 315, 612 2, 243, 497 2, 060, 695 2, 056, 515 2, 517, 265 2, 631, 771	14.00 1.00 35.00 24.30 1.04 23.5 18.87 12.00 22.45 4.54	1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. Total since 1878	4,015,720 24,403,355 14,678,627 4,391,155 24,701,908	1. 96 6. 87 9. 64 6. 24 6. 14 7. 06 10. 22 16. 78

¹ Decrease.

¹For other years' see 1913 report.

¹Indian children in public schools under contract are included in the average attendance, but the schools are not included in the number of schools.

¹Includes Five Tribes, boarding schools.

¹The decrease in attendance is due to a different method of computation. Formerly the average attendance was the average of three-quarters having the greatest attendance. The year's attendance has been computed for 10 months, including September, when the attendance is always small.

^{*}Decrease.

*Includes \$400,000 for Indian school and agency buildings.

*Includes \$440,000 for Indian school and agency buildings.

*Includes \$430,000 for Indian school and agency buildings.

*Includes \$300,000 for Indian school and agency buildings.

*Includes \$350,000 for Indian school buildings, Sloux Reservations, North and South Dakota.

*Includes \$350,000 for Indian school and agency buildings.

TABLE 20.—Demonstration farms, fiscal year ended June 30, 1918.

	Acre-		Value of tools		loyees lged.		Value of	producti	i.
States and superintendencies.	age.	Value.	and imple- ments.	Num- ber.	Wages.	Raised.	Con- sumed.	Sold.	On hand.
Grand total	1,532	\$ 51, 674	\$5, 496	37	\$4,832	\$9,226	\$1,192	7,600	43
Arisona	140	5, 450	2,341	11	212	35	35		
Kaibab	252 2,089	11	212	35 8,770	35 736	7,600	43		
California	3	120				271	271		
CampoMalki 3	3	120				271	271		
Idaho: Fort Hall ¹	200 48	3,270 1,200	25						
schools	47	418	(4)	1	150	 			! !
thold 1	638	7,656	825	13	3, 320	ļ			
Arapaho	410 40 6	32, 800 400 360	2,305	2 10	1,000 150	150	150		

I Former report.

TABLE 21.—Experimentation farms, fiscal year ended June 30, 1918.

Character described	Acre-	Value.	Value of tools	Empi enge	loyees ged.		Value of	producti	š.
States and superintendencies.	age.	value.	and imple- ments.	Num- ber.	Wages.	Raised.	Con- sumed.	Sold.	On hand.
Grand total	12	\$1,575		4	125				
Montana: Crow New Mexico: San Juan 1	10	50 1,500		4	25				
North Dakota: Standing Rock	1	25	•••••			(2)			

Only items reported.

Not reported.

Only items reported.

Agency tools used.

Crop allure.

Cases prosecuted.

* Includes 75 suspended.

TABLE 22.—Suppression of liquor traffic among Indians, fiscal year ended June 30, 1918.

	Total.	8811288 2821288 2821288 282128 283128	108 108 8 8 11 11, 164 115, 164 117, 788 2, 828 2, 828 2, 828
ons).	Mis- cells- neous.	1, 584 1, 192 1, 192 2, 223 9, 584 6, 300 5, 300	38 38 38 38 58
lag) stor	Wine.	82 82 82 82 82 82 82 82 82 82 82 82 82 8	3 16 16 17 19 19 19 19 19 19 19 19 19 19 19 19 19
Seigure of liquors (gallons).	Malt	12,700 9,973 16,558 14,410 17,181 7,773	11.7.7.7.7.7.7.7.7.8.8.8.8.8.8.8.8.8.8.8
Seizu	<-	343 492 511 186 480 472 513 1, 470	64 E.A. 85 80 84
	Whisky	8, 655 5, 088 2, 468 6, 207 7, 214 6, 537 18, 495	1, 401 1,
risoned.	Term (mos.).	3,960 3,662 3,662 3,966 3,005 3,260	10 12 12 12 12 12 12 12 12 12 12 12 12 12
and imprisoned		1120, 007 94, 643 88, 762 102, 067 103, 304 103, 304 105, 291 105, 291 105, 291 105, 463	257 1.2 2000 2.2 2000
Fined		993 993 995 995 995 995 995 995 995 9923 9923	2224 8108 224 422 8 510 FF 0
	Cases pond- ing June 30, 1918.	3,557 1,1,2,368 1,1,365 1,1,004 3,65 3,65 3,65 3,65 3,65 3,65 3,65 3,65	P84042F884848485E80F880208030058
ا ا	Total cases dis- posed of.	1,522 1,661 1,640 1,540 1,322 1,322 1,347	21 28 28 28 28 28 28 28 28 28 28 28 28 28
of cases	Died, es- caped, or bonds for- feited.	828882028°°	H 80 8 9 8 1 H
Disposition of cases	Aoquite tals.	383 583588	מי יו אי מי יו ווי מי יו אי
Output to more adding	Dismis- sals.	285 201 201 201 201 201 201 201 201 201 201	ше и кадера 2 г. к. п. 184
mea Id	Convio-	983 986 1, 227 1, 002 1, 168 1, 168	21224 800 2584 420 BEG 488 000 FFC 0
U	Total cases 1918.	446664444 67778888 608886888 6188868888	841111488842812525540128080808082
LABLE 22	New coace fiscal year 1918.	2,100 1,71,105 1,105 1,105 1,117 1,117 1,117 1,117	828. 3185552858. 134 7.02 853
4	Cases pend- ing July 1, 1917.	8.000 mg 2000	858**4624-£4822455**852**C **********************************
	Paid depu- tios em- ployed.	25 28 28 28 28 29 24 24 24	
	States.	Total 1918 1917 1916 1916 1914 1913 1913 1910 1900	Arizona Arizonas Californias Colorado Colorado Colorado Minnesota Minnesota Minnesota Minnesota Minnesota Minnesota Mortanas New Mexico New Mexico New Mexico New Mexico North Carolina North Carolina North Carolina Originas Origi

¹ Includes 6 deaths and 3 escaped. ² Includes fine

² Includes fined but not sentenced, penitentiary sentences, and miscellaneous.

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TABLE 23.—Estimated area, stand, and value of timber, sawmills, and quantity and value of timber cut on reservations, freal year ended June 30, 1918.

	*	Allotted lands.	ds.	n O	Unallotted lands.	nds.	Se W	Sawmills on reservations.	eserva	tions.			Timber	Timber cut by—		
States and reservations.					=	Total	E	Private.	Gover	Government.	Gover	Government.	Indi	Indians.	Contra	Contractors or permittees.
	Acresge.	Acresse, Quantity.	value.	Acreage.	Quantury.	stumpage value.	Nam- Der.	Cost.	Num- ber.	Cost.	Quan- tity.	Value.	Quan-	Value.	Quantity.	Value.
Grand total1,28	7,421	W board /eet. 6, 426, 215	\$11,044,615 5,275,554		M board fest. 32,270,255	M board fest. 32,270,265 \$73,020,168	88	\$238, 647	38	\$179,057	M board feet. 31,018	M board feet. 31, 018 \$451, 547	M board fed. 41, 668	1153, 826	M board feet. 231, 365	\$1,004,318
Arisons	2,560	3,925	4,000	1, 242, 740	4, 286, 600	11, 260, 050	1	7,800	3	15,000	6,466	12,972	14, 455	61,528	465	1,920
Fort Apache! Moqui. Navajo! Pima!				650,000 20,000 000,000	3,000,000	3,000,000 7,500,000 80,000	-	7,800	-1 -	10,080	6,042	11,802	888	31,000 31,000	390	1,170
Salt Alver San Carlos San Xavier Truxton Canon	2,560	3,925	4,000	31,740	221,000	603, 250				3,000	762	670	1,0, 3,8,3,	e, 7, e,		
California	23,450	1, 260, 166	1,915,250	109, 550	109, 550 1, 073, 706	938, 356			-	1,500	88	1,936	448	299		
Campo Digger Fort Bidwell Fort Yuns	86, 88 88 8	10,000	40,250	. 1, 20 500 5	8,000 6,000	* 25,000 4,000				•	• 200 • 200	1,800	18 8	92		
Pala Round Valley Boboba, Tule River	: ::	<u> </u>	75,000	§	20,566 192,000	1,000			5 7	1,500	3		3			
Colorada: Southern Ute Idabo.	1,900	3,00	4,000	75,700	377,887	1,328,661	9	36,000	٠,=	2,000			361	88	12,437	87,960
Coeur d'Alene. Fort Hall. Fort Lapwal	19,960	30,880	179, 640	2,65 20,080 0,000 0,000	7, 887 100, 000 270, 000	22, 26, 26, 26, 26, 200, 200, 200, 200,	9	35,000	-	2,000			191	44	11,907	36,421
Iows: Sac and Fox				8	22	1,500			1		64	2	158	1,820		

Michigan: Mackinac 2	14,677	190,09	81,962	Ī			Ť	1	÷	:		-	200	803		
Minnesota	140,443	30,000	208,500	124, 397	100,658	990, 178	2		က	7,800	1, 223	12, 378	2, 573	8,856	36, 265	810,877
Fond dn Lac Grand Portage ! Leech Lake	e,8,8.	2,87,	r,%%;	16,000	3,000	10,000	69	€		98			137	1,008	787	4,719
Neti Lake Red Lake Vermillion Lake White Earth	નું હતું	14, 000 2, 500	15,000	107,677 220 400	98,25 2,900 100	25,578 26,658 860,68				98,	2. 2.2	11,978	1,031	5, 140 687	21, 183 4,000	166,390 14,440
Montana	32, 213	311,773	756, 465	367,070	2, 100, 800	5, 811, 800	2	52,000	20	10,000	976	1,077	2,014	11,338	48,735	174,698
Blackfeet Grow Flathead Fort Belknap.	20,820	270,000	2,000 676,000	200,800 32,900 32,900	1, 2,4,2, 8,000, 000,000,000	4, 200, 000 1, 200, 000 192, 000	нa	20°0 20°0 20°0		3,760	5 8	ş	28.85. 28.85.	208.00 40 40.00 40 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	15,720	174, 683
For Feck Tongue River Nevada	1,000	39,773	8,000	2,000	3,000	720,000			-	2,000	8	476	61	1,88		
	1,000	2,000	8,000	2,000	3,000	15,000							100	1,000		
New Mexico.	74	365,000	1,005,000	504, 113	1,599,882	4, 690, 230	-	6,347	•	8,650	\$	ğ	8,008	6, 100	22,340	66, 539
Jearilla. Mescularo	254,327	• 365,000	1,095,000	205. 250,000	1,500,000	4, 500,000 000,000	-	16,347	-8	2,000 000,000	216	£	192	516	22,360	66, 539
rueblo day schools San Juan. Zuni.				8,2,-, 8,8,2	1,8, _{7,}	888 888				2,500	88	88	4,547	4, 585		
North Carolina: Cherokee.				48,000	36,000	192,000	i			9.00			22	1,00		
Oklahom	3,000	9,000	72,000	11,606		71, 718	i									
Five Civilized Tribes	3.000	000.6	72,000	11,695	ω	8 71,718										
Oregon.		2,064,200		1, 127, 509	1, 127, 509 12,989,650 29, 166, 300	29, 166, 300	~	55,000	•	27,000	1,268	2,730	5,761	15,371	17,866	56, 813
Klamath s.	18,000	216,000	246,000		9, 264, 000	23, 700, 000	8	30,000	7	18,000	1,264	2,730	5,236	10,621	17,866	56,813
Silets Umatilia Warm Springs	553	54.8 888	5 5 5 5 5	85,2,3 80,83 90,83 90,83	185,00 10,00 00,00 00,00	185,000 21,300 250,300	io.	9,000	6	000			8	4, 750		
Mostly cordwood, 2 1917 report.		osts, etc., o	fence posts, etc., on this reservation.	vation.	•	School reserve. Destroyed by fire.	76. 7 Bre.		\$E	Unknown.	¥	EX	ot repor	7 Not reported. Includes land value also.	eleo.	

TABLE 23.—Estimated area, stand, and value of thmber, sawmills, and quantity and value of timber cut on reservations, fiscal year ended June 30, 1918.—Continued.

	4	Allotted lands.	ds.	ď	Unallotted lands.	nds.	B	Sawmills on reservations.	eservat	ions			Timber	Timber cut by—		
States and reservations.		1	Total			Total	É	Private.	Government	ment.	Government.	ıment.	Indi	Indians.	Contra	Contractors or permittees.
	Acresge.	Acresce. Quantity.	stumpage value.		Acresce. Cuantity.	stumbage value.	Num- ber.	Cost.	Num Ver.	Çest.	Quan- tity.	Value.	Quan-	Value.	Quan-	Value.
South Dakota	26,800	M board feet. 13,000	59,000	37,336	M board feet. 20,000	100,000	69	1,000	-	2,300	M board feet.	253	M board feet. 2,722	33,910	M board feet.	
Lower Brule. Pine Ridge.	1,800 25,000	3,000 10,000	9,000 50,000	37, 336	20,000	100,000	6	1,000	-	2,300	ā	252	2,541	31,710		
Utah: Uintah and Ouray	46., 418	2, 204, 407	4, 068, 601	6,660	15,500	34,875	•	7, 500	- 0	16, 100	419	1,472	a 2	9,230	151	160,628
Colville Cushman Neah Bay Bpokane Tabolah Tulalip	180,000 6,391 36,000 54,558	26,000 26,000 261,730 818,377 818,377	400,000 48,000 522,440 1,227,566 1,320,465	620, 000 20, 797 75, 000 168, 531		1,002,707 275,000 1,090,500 6,319,908	8 8	(1)	8 2 -	3,000		1,217	1,070 1,300 15 710 1728	1,415 3,500 1,238 1,238	397	830
Yakima. Wisconsin	135, 788	336,500 49,883	545, 130	350,000 253,787	1, 776, 836	2, 878, 475 6, 096, 882	-	70.000	-	73, 307	18,810	255	2,068	2,770	57, 465	302, 204
Grand Rapids ! Hayward Keshana Lao du Flambeau La Poirte Red Cliff	9,800 13,021 104,967 8,000	25, 4, 2, 50 20, 50 20, 50 30,	89,000 29,297 14,000 40,000	13,000 227,424 10,594 8,760	1, 300 1, 621, 963 3, 973 12, 676	3,400 5,980,911 23,836 88,735		1 1 70,000	-	73, 307	18,810	416, 720	1,978	2, 638	7,836	21,804
Wyoming: Shoshone				44, 160	334, 530	756,038			-	1 7,400	28	92			82	88

' Not reported.

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Total. Allotted. Unal. School agency. Allotted lotted agency. It was a series of the control of	Area susci	Area susceptible of irrigation (acres).	trigation	(acres).	Acreage 1	Acreage now under project.	project.				Expenditures	e.	
Toycal Allotted lotted agency. Allotted lotted agency. Construction of the constructio	<u>.</u>			School			School	Acreage not under	During facel year 1918.	year 1918.	Ľ	To June 30, 1918.	_
1,000,000 1,100,011 420,462 28,377 718,509 221,734 19,781 646,612 81,066 100,000 11,000 136,122 2,131 44,922 20,666 1,386 126,004 134,066 2,626 11,000 11,000 2,325 201 11,000 2,325 301 13,000 13,000 13,004		Allotted.	lotted.	agency.	Allotted.	lotted	agency.	project.		Mainte- nance.	Construc- tion.	Mainte- nance.	Total.
Vericle. 100, 188 55, 990 135, 122 2, 131 44, 922 20, 668 1, 398 120, 304 124, 498 120, 208 40 Kiver. 100, 208 11, 640 88, 330 770 11, 660 2, 325 801 19, 928, 330 19, 928, 930 19, 928, 930 19, 928, 930 19, 928, 930 19, 928, 930 19, 928, 930 19, 928, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19, 938, 930 19	999,	1, 150, 911	426, 462	28, 277	718, 508	221, 754	19, 781	645, 612	\$1,684,778.67	\$523, 579. 98	\$15,006,092.90	\$2,328,890.78	1817,834,968.66
10, 208	193, 183	55, 930	135, 122	2, 131	44,923	20,668	1,398	126, 204	124, 895.07	75, 119. 52	1,986,433.33	218, 042. 17	2, 204, 475.50
113 106 4 70 4 70 4 70 4 70 4 70 4 70 4 70 4 70 4 70 4 70 70) (2,	11,000	88, 2,326, 325,	80° 208	11,600	2,325	55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	88,88 68,88	19,444.33	34, 986. 27	750.49 268, 742.95 17, 383.31	70, 191.45	702.01 347,984.39 18,347.29
86 87 88 89 89 89 89 89 89 89 89 89 89 89 89 89 89 89 12,200 646 10,188 27,700 16,188 27,700 16,188 27,700 16,188 27,700 16,188 27,700 16,188 27,700 16,188 27,700 16,188 27,700 16,188 27,700 16,188 27,700 16,188 27,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 16,188 17,700 17,700 16,188 17,700 17,700 17,700 17,700 17,700 17,700 17,700 17,700 17,700 17,700 17,700 17,700 17,700 17,700 17,700 17,700 <td><u> </u></td> <td></td> <td>8<u>6</u>2</td> <td>10.4</td> <td></td> <td>82</td> <td>∞ 4</td> <td></td> <td></td> <td></td> <td>2, 208. 2, 218. 90 2, 282. 92 2, 282. 93</td> <td></td> <td>2, 4, 14, 15 20, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13</td>	<u> </u>		8 <u>6</u> 2	10.4		82	∞ 4				2, 208. 2, 218. 90 2, 282. 92 2, 282. 93		2, 4, 14, 15 20, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13
13, 25, 35, 36, 46, 45, 77, 37, 37, 37, 37, 37, 37, 37, 37, 37	ä		12,000	æ %		2,000	ង ន	10, 183	30.56	3, 272, 10 6, 589, 54	10,407.73	23,435.98	10,407.73 447,460.73
1,566 22,721 1,963 110 1,660 1,000 15,000 16,000	75,5	32, 790	12, 210	431	86 7,250	12,210	12	6, 700	21,230,23 25,682,23 25,583,24	9, 342.38 5, 313.02	123, 422.75 826, 211.68	16, 285.98	139, 708. 73 879, 430. 00
45, 986 22, 721 12, 883 362 10, 827 12, 359 387 22, 413 17, 17, 12, 12, 12, 12, 13, 12, 13, 12, 13, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13		3,500	1,983	21838 21838	1,600	1,485	2828	6, 4, 4 86,88 8	6,485.81	15,616 21	121,43,63 14,63,63 14,63,63 14,63,63 14,63,63 14,63,63 14,63	, 8 8.09 8.09 8.09 8.09	112, 21, 25, 582, 73 22, 22, 22
11,388 8,380 8,000 18 1,350 8,000 8 2,010 186 1,500 8,520 8,520 1,460 1,400 1,380 2,500 1,	_	15, 28	12,853	2	10,827	12,350	387	z, 418	17,900.76	35, 438. 77	727, 641. 67	126, 358. 50	854,000.17
8,329 8,020 160 170 8,020 160 170 6,000 15,0	= '	3,350	8, 98,8	18	1,350	8,000 2,145	200	2,010 105 846	25.21				
3,028 1,034 1,890 14 1,007 1,705 13 788 881 446	વે જે બં	68.1 88.5 98.5	1,380		8 8 8 8 8 8	91	822	2,413	9, 064. 12	8	727, 641. 67	126, 358. 50	864, 600. 17
981 918 13 446	ట్లో	8,1 1,63,	1,980		1,067	1,571	22	11,510	2, 202, 76 2, 984, 25 24, 88	3, 994. 75 16, 858. 11			·
100 1 100	8 5		818 190	2 -		డ్జి	1 1	3 5	\$42.11 \$6.73	2,032.63 121.28			

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TABLE 24.—Area on reservations susceptible of irrigation, acreage under projects, and expenditures for irrigation thereon, etc.—Continued.

	Area susc	rea susceptible of irrigation (acres).	Irrigation	((acres).	Астевде	Acreage now under project	project.				Expenditures.		
Btate and superin- tendencies.			1	School		100	Behool	Acreage not under	During fiscal year 1918.	year 1918.	Ě	To June 30, 1918.	
	Total.	Allotted.	lotted.	and agency.	Allotted.	lotted.	and agency.	project.	Construc- tion.	Mainte- nance.	Construc- tion.	Mainte- nance.	Total.
Colorado	12,830	12,500		880	12,500		8		\$15, 185. 88	85, 141. 98	\$254, 923. 92	\$13, 368. 31	\$268, 292. 28
Fort Lewis											214.24	308.45	522.69
Southern Ute.	12, 830	12,500		330	12,500		330		492.84 14,692.99	223.95 4,918.03	21, 283 33 283, 426.35	4, 563. 70 8, 496. 16	25, 847.08 241, 922.51
Idaho	46,435	38,940	6, 700	56	38, 640	6,700	929	419	354. 56	37,961.79	865, 378. 28	251, 299. 66	1, 116, 677. 94
Fort Hall. Fort Lapwai	45,820 615	38,540	6, 700	215	38, 540 100	6, 700	95 98	419	354.56	37, 961. 79	858, 855 32 4, 156 83 2, 366. 13	251,088.22	1, 109, 943.54 4, 368.23 2, 366.17
Montana	446,842	299, 278	134, 765	12, 799	204, 251	113, 605	12, 129	116, 857	1, 004, 472.88	110, 973. 43	6, 425, 558. 57	732, 494. 71	7, 158, 068. 28
Blackfeet. Crow Fighthead. Fort Belking. Fort Peck Fort Shaw. Tongue River	111, 500 153, 702 134, 500 38, 020 7, 500	57, 096 153, 307 81, 375 7, 500	54, 240 42, 125 35, 000 3, 400	164 395 11,020 1,020	48, 856 74, 0.0 81, 375	35, 480 42, 125 35, 000 1, 000	104 205 111,000 620	27,000 79,477 7,500 2,480	36, 323, 95 52, 783, 97 810, 405, 60 5, 513, 94 99, 425, 36	75, 084, 07 33, 792, 11 2, 147, 26	1, 023, 286, 10 1, 204, 506, 02 3, 164, 268, 19 267, 995, 68 645, 7513, 55 2, 7613, 55	23, 281. 27 485, 288, 51 104, 356, 94 85, 302. 16 14, 348. 20	1,046,541.87 1,689,774.83 3,288,625.13 343,297.88 656,861.75 2,769.31 150,183.86
Nevada	62, 111	11,408	50, 372	336	4, 113	1,732	ĸ	56,035	31, 722. 30	13,019.73	377, 264. 18	50, 421. 61	427, 685. 70
Carson School. Fallon (Carson Sink silotments). Fort McDermitt. Moans River	3,740	3,690 1,158	18	32	950 908 908	18	2,28	2,740	8, 260. 62	3, 261. 60	& 884		£ 88.5
Nevada (Pyramid Lake) Walker River Western Bhoshone	28,68 8,688 28,688	5,965	22,000 28,24,000	883	1,955	2,02 1,070	888	22 - 72 24 - 72 25 - 72 25 - 72 25 - 72	23, 431. 22 26.97 28.97	6, 496. 15 2, 888. 21 873. 77	94, 999. 78 116, 245. 99 45, 811. 67	6, 496. 15 15, 646. 59 4, 258. 62	101, 496, 98 131, 892, 58 49, 566, 29

New Moxfoo.	90,800	1,860	48,080	870	465	36, 130	740	13, 465	53, 333. 84	11, 802. 47	990, 802. 98	89, 289, 79	1,080,152.77
Jicarilla Mescalero Pueblo Bonito ^a Pueblo day schools San Juan	2, 01,8,4,1 000,000,14,1 000,000,14,1	1,850	360 26, 900 13, 820	8 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	465	22,080 8,820	\$2 28 28 28	1, 505 100 100 100 100 100 100 100 100 100	1, 827. 37 235. 50 18, 109. 13 31, 200. 23	1, 204.54 3, 508.49	7, 749. 15 15, 698. 82 841. 21 167, 491. 64 251, 911. 16	1, 707. 86 53, 911. 10	7, 740.15 15, 608.32 841.21 169, 199.50 305, 822.28
North Dakota: Standing Rock?		88,640	7,000	1,00		900 '9	8	98, 98	g S	7,069.44	647, 671. 51	g :	2
Oragon.	147,063	116,270	30,000	1, 798	87,270	30,000	1,798	28,000	9, 236. 79	4,319.77	269, 647. 50	11, 361. 64	281,000.14
Klamath	140,000 5,050 2,013	108, 270 2, 000 2, 000	30,000	1,730 55 53	82, 270 5, 000	30,000	1, 78 82, 23 13, 52	2,000	8, 865. 73	4,319.77	262, 800. 15 397. 97 6, 449. 38	11, 361. 64	274, 161. 79 397. 97 6, 449. 38
South Dakota	34, 765	32, 500		2,265	9		98	34, 105	2, 343. 71	195.48	71, 514. 54	888.38	72, 397. 89
Pierre. Pine Ridge. Rosebud.	34, 500	32,500		2,000	007		991	33,946 940	37.98	195. 48	32, 761. 77 38, 463. 57 280. 20	883.35	33, 645. 12 38, 463. 57 289. 20
Utah	97, 621	85,514	8, 570	3,537	80,084	570	537	16, 420	1,060.34	114, 165. 75	849, 471. 38	309, 852. 96	1, 150, 324, 24
Goshute Shivwits Uintah and Ouray	330 277 97,014	85, 514	8,000 8,000	3,500	80,094	270	86.78	16, 420	10. 16 9. 18 1, 060. 00	1, 087. 26 658. 44 112, 420. 06	888.30 1, 590.53 846, 992.55	1,087.25 1,019.85 307,745.76	1, 976, 56 2, 610, 38 1, 154, 738, 31
Washington	234,888	234, 735		153	162,035	-	3	72,810	364, 248, 22	67, 907. 98	1, 140, 761. 27	333, 602. 89	1, 474, 364. 16
Colville	47,003	46,960		3	41,960		3	2,000	2, 869.90		49, 595. 72	2, 201. 34	51, 797.08
Spokane. Yakims	785 187, 100	775 187, 000		28	75 120,000			67, 100	361, 378. 32	67, 907. 98	1, 529. 96 1, 088, 167. 38	331, 401. 55	1, 419, 568. 93
Wyoming: Shoshorae	143, 530	141, 630		1,900	72,985		1,307	86,238	59,068.06	47, 533. 26	860, 242, 35	191, 915. 26	1,062,157.61
Administration: Special investigations, etc				İ					947.31		186, 392, 93		186, 392. 93
	1 Stat	Btate lands.				9 No living water	ng water.			57 •	1917 report.		

TABLE 25.—Miles of disches and use of irrigated areas on Indian reservations, fiscal year ended June 30, 1918.

									(9		arar (aa ama			
	Ditches vat	Ditches on reservation.	Allot-	,	ļ	∢	ത്രജ്ഞാ	irrigate	d lands co	Acreage of irrigated lands cultivated by Indians and whites	Indians	and white	×i		
States and superintendencies.			ment under ditch	bene- fited	gated allotted			Sohoo				By Indians.	DS. •	within service of ditches	der to
	Main.	Lateral.	June :40, 1918.	gation.	leased.	Allotted.	Unal- lotted.	agency.	Total.	Value of crops.	Num- ber en- gaged.	Acreage.	Value of products.	1918.	ditch.
Grand total	Miles. 1,357	Milra. 3,085	Number. 14,944	Number. 31, 530	Acres. 116,694	225, 486	76, 428	3, 484	305, 398	1 \$5, 247, 012	14, 154	167, 278	\$2, 851, 270	Acres. 586, 392	Acres. 9 938, 732
Arizona	272	215	4,118	11,087	2,756	37,393	19,600	1,096	58,088	1, 127, 429	7,217	53,770	703,847	63, 464	129,719
Camp Verde. Colorado River Fort A pache Havssupal Kabab	4854	288×14	511	106 110 500 171 81	2,756	4,070	1,500	120 65 33 4	1,565 1,565 133 32	4,300 418,545 87,990 3,149 614	21 110 500 16	1,314 1,565 1,565 32	4,300 47,920 43,995 2,713 614	6,810 2,187 1111 70	98, 190 439 40
	• 5	61 58 (*)	2,733	3,000 4,397 1,277		26, 250	12,200 12,210 1,350 1,385	857 57 57 57 57 57 57 57 57 57 57 57 57 5	2, 288 2, 738 1, 000 1, 409	32,500 133,800 132,720	3,2,8 2,887	38, 288 1, 5, 940 1, 385	132,200 132,200 283,420	6,8%,8,4, 0,8% E 28,5%	9,9,4, 200,9,4, 8,4,3,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
Truxton Canon Western Navajo	8	<u>:</u>	•	368		1, 500	1,000	200	1,20	17,940	5\$\$		11,065	1,826	2,000 12,240
California	118	148	1,137	8,448	5,040	9,368	2,865	276	12, 509	608, 521	996	7,407	306, 912	15,142	30, 794
Bishop Campo Digent Fort Bidwell	-1208		150	500 74 115	04	1,200	783 28	82.26	1,218 321 65 100	26,810 13,973 4,100 3,000	នឹងដន	1,219 244 100	26, 810 13, 973 3, 100	2, 24, 111 000	8,818 13 5,060
Fort Yuma Hoops Valley Mald: Pals Bobobs Tule River		8.5 1.841	(4) (5) 166	(+) (574 1,025 146 150	2,000	7,255 7,250 573	4 160 1, 156 709 418	126	7,405 1,156 1,287 1,287 101	27, 27, 27, 27, 27, 27, 27, 27, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	ដូនដូនខ	2, 405 1, 136 1, 278 1, 200 1,	172,548 28,168 19,270 26,200 9,200	8,350 1,689 1,061 1,061	2,413 11,402 2,547 561
Colorado: Southern Ute	\$	15	8	250		3, 268	:	1	3, 409	43, 450	8	1,921	28, 530	5,160	7,670
Idaho: Fort Hall	28	120	1,869	1,666	10,931	13, 381	_	2	13, 722	240,964	233	6,922	118, 734	25,780	20,040

Montana	_	234 1, 244	3,602	6,300	16,343	29, 830	19,846	202	49,978	460, 411	677	29, 680	226, 591	204,980	241,862
Blackfeet Crow Fathead Fort Beknap Fort Peek Tongue River	28 1 28 ×	\$22.52 82.52 80 80 80 80 80 80 80 80 80 80 80 80 80	1,150	2000 2000 2000 2000 2000 2000 2000 200	6,720 7,000 2,628	1, 976 19, 000 7, 269 1, 585	8,536 10,800	167	1,976 19,157 15,805 10,800 1,585 1,685	24, 563 279, 770 279, 770 19, 858 5, 800	106 230 71 270	12, 976 10, 976 10, 986 10, 986 10, 986 10, 986 10, 986 10, 986 10, 976 10, 97	28,7,2,8,4, 8,8,7,2,8,6, 8,8,7,2,8,8,6,	28, 240 72, 640 18, 800 1, 000	83, 27,7,220 620 620 620 620 620 620 620
NevadaFallon.	8.4	88	721 369	1,820	\$	3,435 954	1,437	272	5,034	137,866	32	4, 999	134, 541 17, 120	30, 49 7 3, 720	31, 614 20
Fort McDermitt Mospe River Nevada. Walter River Western Shoshone.	2 E 8 8 4	8285	110	001100 1001100 1001100	\$	743 350 1,388	312	9 892	817 350 1, 404 1, 1404	3, 731 12, 834 38, 525 45, 398	88585	743 350 312 1, 454 1, 070	3,525 19,650 11,834 37,865 44,747	21,030 2,500 2,500	1,116 3,536 26,943
New Mexico	23,	32	25	5,872		100	32,310	710	33, 120	670,960	3,645	32,880	651, 433	42, 226	18, 575
Jicarilla. Mescalero. Pueblo Bonito u	=*	C9	92	88		100	280	02 4	888	3,317 25,437	88	88	20,437	300	1,405 100 10,000
Pueblo day schools San Juan Zuni	761 51 51	ន្តនន		3,024 925 1,808			25,00 00,00 00,000	320 120	22,050 5,320 120 20	409, 012 133, 786 99, 408	2, 925 600	2,5,350 5,110	409,013 122,073 99,408	5,030 5,030 120 120	5,070 2,000
Oregon	8	31	900	188	8	3,400		300	3,700	64, 500	84	3,000	45,000	12, 200	134, 843
Klamath Umatilla Warm Springs	3°€	° 78	200	148 (e)		3,200 (€)	€	300	3,500 (€)	52, 500 12, 000 (•)	37	3,000	45,000	12,000 200 (•)	128,000 4,850 2,013
South Dakots: Pine Ridge	6	i	•					75	75	2,000	:	•	:	28	83,940
Utah	156	60	808	\$	44,000	70,908	320	37	71,315	451,240	E	9,286	120,790	80, 701	16,920
Goahute Shivwits. Untah and Ouray.	93	24 168	808	1058	44,000	70,908	300	30	330 77 70,908	11,000 3,900 436,340	883	300 77 8,906	11,000 3,450 106,840	330 277 80,084	16, 920
1 Data incomplete. 1 Dos not inclinde Pierre, Stand 1 Overest finated last year. 4 Not reported. 5 Dry dicthes. 6 1917 report.	ding Roc	it, and i	ort Lepw	ai, which	врож вп	tanding Rock, and Fort Lapwal, which abow an irrigable area of 90,536 acres preceding table.	res of 90,	526 acres	preceding	table.	7 Former repo • As reported. • Does not inc • Former repo	Former report. As reported. Does not include Former report p	⁷ Former report. • As reported. • Does not include crop value of leased land. • Former report pertained to allotments. • No living water on land.	of leased laliotments	pus .

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TABLE 25.—. Hiles of ditches and use of irrigated areas on Indian reservations, fiscal year ended June 30, 1918—Continued.

	Ditches on reservation.		Allot]		creage of	irrigate:	l lands cu	Acreage of irrigated lands cultivated by Indians and whites.	Indians a	and white			
States and superintendencies.			ment under ditch	pene pene pene pene pene pene pene pene	gated			Cohoo				By Indians.		service of ditches	der to
	Main.	Lateral.	June 30, 1918.		leased.	Allotted. Unal-	Unal- lotted.	and agency.	Total.	Value of crops.	Num- ber en- gaged.	Астевере.	Value of products	1918.	ditch.
Washington	Miles. 122	Miles. 660	Number. 1, 152	Number. Number. Acres. 1, 152 717 36, 684	Acres. 36,684	47, 144		28	47, 194	1, 288, 490	88	10, 226	378, 710	Acres. 80, 683	Acres. 174, 205
Colville	4	9	52	217	28	1,744	1,744	æ	1,794	30,540	8	88	20,760	1,828	45, 175
Yakima	8	8	1,100	200	38,000	1 45, 400			1 45, 400	1 45, 400 11, 257, 950	175	9,400	357,950	58,855	128,245
Wyoming: Shoshone	3	200	1,201	1,350		7,259			7,259	142, 182	245	7,259	142, 182	45,000	98, 530

1 Ketimated

Table 26.—Allotments approved by the department during the fiscal year ended June 30, 1918, and made in the field.

States and tribes, or reservations.		oved by artment.	Made fle	
States and strong, or research	Number.	Acreage.	Number.	Acreage.
Total	4,092	1, 121, 084	4, 281	72,830
Arizona	16	310	3, 580	34, 185
Ak Chin Colorado River Pima (Chiu Chuischu) Pima (Gila River).		150	164 3 6 3,407	403 30 15 33, 737
Public domain.		160		
California	. 18	1,391	277	1,385
Malki. Public domain.	18	1,391	277	1,385
Minnesota: Fond du Lac	. 5	360	ļ	
Montana	3, 105	1,015,632	33	3, 385
Blackfeet	. , 1	886,979 160 126,054		
	1	2, 439	83	3,385
Nevada	2	104	2	90
PaiutePublic domain	2	104	1	10 80
New Mexico: Public domain	. 5	799	6	960
North Dakota Public domain (Turtle Mountain)	. 7	1,040		
Oregon		l	388	32,825
Klamath. Umatilla.			38 350	4, 636 28, 189
South Dakota	388	69, 431		
Cheyenne River	193 195	30, 996 38, 435		
Washington: Public domain	. 1	80		
Wisconsin: La Pointe	545	31,937		ļ
Total reservations. Total public domain	4,041 81	1, 115, 071 6, 013	4, 241 40	68, 405 4, 426

TABLE 27.—Sales of Indians' allotted lands during fiscal year ended June 30, 1918.

	r	Voncompeter	ıt sales.¹		Inherited-land	i sales.º
States and superintendencies.	Num- ber of tracts.	Acreage.	Proceeds.	Num- ber of tracts.	Aèreage.	Proceeds.
Grand total	4,657	514, 963. 92	\$8,717,748.14	9, 438	1, 159, 582. 14	\$18,601,359.34
Total, 1918	662 588 583 422 529	74, 126.00 69, 849.00 54, 958.62 34, 429.09 45, 526.31	1, 541, 178. 00 1, 040, 202. 00 989, 611. 24 584, 724. 56 779, 526. 14 407, 315. 56 568, 880. 75 978, 588. 27 1, 245, 639. 96 442, 762. 85 159, 318. 81	438 655 324 393 418	49, 216.00 75, 892.00 85, 762.25 68, 245.45 45, 241.99 10, 797.94 43, 652.27	1, 174, 855. 00 1, 546, 965. 06 694, 241. 40 715, 568. 52 773, 309. 16 285, 087. 2889, 285. 02 1, 508, 960. 38 1, 966, 315. 92 1, 321, 258. 72 1, 302, 506. 94 1, 248, 793. 961, 430. 87
1913	208 324 494 520 235	45, 526.31 20, 778.80 34, 391.11 56, 197.98 82 655.80 34, 060.33	407, 315, 56 568, 880, 75 978, 588, 27 1, 245, 639, 96 442, 762, 85	109 392 638 873 753	10, 797. 94 43, 652. 27 79, 665. 66 129, 359. 61 102, 708. 00 91, 302. 57	285,097.72 889,285.02 1,503,960.38 1,956,315.92 1,821,258.72
1908	92	7,990.88	159,318.81	768 820 643 978 1,236	106, 359, 25 64, 447, 67 90, 214, 97 122, 222, 52	1,302,508.94 1,248,793.34 981,430.87 1,398,131.52 2,057,464.50
1904	4	124	890	(6)	44, 493. 99 840	757, 173.25 5, 600
Idaho	17	1,464	50, 212	26	2,145	83,377
Coeur d'Alene Fort Lapwai	5 12	559 905	10,317 39,895	4 22	481 1,664	8, 798 74, 579
Kansas: Potawatomi	12	660	29, 248	2	158	6,812
Minnesota	27	1,430	24,820	11	562	9,265
Fond du Lac Leech Lake	15 8	160 630 640	2,377 7,733 14,710	ii	562	9,265
Montana	42	5,606	76,770	91	11,242	166, 182
Crow. Flathead Fort Peck.	17 12 13	1, 111 910 3, 585	21, 600 21, 236 33, 934	- 39 5	7,331 3,393 518	65, 896 81, 070 19, 216
Nebraska	54	2,959	262,566	38	1,908	166,381
Omaha Winnebago	27 27	1,5% 1,373	145,024 117,542	29	600 1,308	51,411 114,970
North Dakota	73	9, 199	127, 215	16	1,579	22,173
Fort Berthold	3 11 18 41	320 675 3,683 4,521	29, 450 11, 041 29, 363 57, 361	11 2 3	859 320 400	14,602 1,465 6,106
Oklahoma	172	18,926	408,766	98	11,668	852,837
Cantonment	32 53 33 13	4,300 6,615 3,722 1,664	72,556 140,528 107,672 11,474 130	15 27 3 3	2, 164 3, 757 202 750	36, 193 89, 433 544 3, 873
Pawnee Ponca. Sac and Fox. Seger	16 13 2 5	1,097 640 240 326	32,336 25,635 5,161 6,436	23 5 2	2,256 474 164	71,880 14,965 3,566
SenecaShawnee	2	280 40	5,338 1,500	15	1,460 441	108, 098 24, 305

Under act of March 1, 1907 (34 Stat. L., 1015-1018), modified by acts of May 29, 1908 (35 Stat. L., 444).
 June 25, 1910 (36 Stat L., 855-856), and Feb. 14, 1913 (37 Stat. L., 678-679).
 Under act of May 27, 1902 (32 Stat. L., 245-275), modified by acts of May 2, 1906 (34 Stat L., 182), May 29, 1908 (35 Stat. L., 245, 1910 (36 Stat. L., 285-856), and Feb. 14, 1913 (37 Stat. L., 678-679).
 Includes sales of lands of Kaw, Osage, and Five Civilized Tribes.
 Unknown.

Table 27.—Sales of Indians' allotted lands during fiscal year ended June 30, 1918—Continued.

	1	Voncompeter	at sales.		Inherited-land	sales.
States and superintendencies.	Num- ber of tracts.	Acreage.	Proceeds.	Num- ber of tracts.	Acreage.	Proceeds.
Oregon	41	5, 418	96, 495	28	3,676	81,362
Klamath	18 18 5	2,406 2,504 508	25,612 23,123 47,760	20 2 6	2,962 274 440	30, 697 3, 250 47, 415
South Dakota	162	25,326	392, 143	63	11,335	168,587
Cheyenne River Lower Brulé Pine Ridge Rosebud Sisseton Yankton	· 6 14 20 62 12 48	1,514 2,235 5,563 12,360 791 2,863	7, 760 20, 784 37, 921 170, 276 26, 667 123, 735	9 1 7 14 17 15	3, 151 640 2, 260 2, 602 1, 738	21, 364 4, 229 10, 967 33, 892 49, 375 48, 760
Utah: Uintah and Ouray	20	1,118	16,700	16	1,037	15, 407
Washington	21	876	37,634	27	1,973	72,814
Colville	6 2 2 11	199 40 58 579	3,620 1,948 5,931 26,135	3 3 21	165 120 1,688	4,890 3,150 64,774
Wisconsin	2	60	1,555	6	293	9, 150
Oneida	2	69	1,555	5 1	173 120	7,200 1,960
Wyoming: Shoshone	15	951	16, 164	- 11	800	14,90

Table 28.—Patents in fee issued under act of May 8, 1906 (34 Stat. L., 182), as modified by acts of May 29, 1908 (35 Stat. L., 444), and June 25, 1910 (36 Stat. L., 855).

	Patent	s in fee issued June 30	from Ma , 1918.	y 8, 1906, to -	Applicing 1918.	ations for iscal yes	rpatents ar ended	in fee dur- l June 30,
States and superintendencies.	Origina	al allotments.	Inher	ited land.			App	roved.
	Num- ber.	Acreage.	Num- ber.	Acreage.	Re- ceived.	De- nied.	Num- ber.	Acreage.
Total	17, 959	2, 139, 590. 44	2,849	312, 357. 50	4,723	344	4, 379	704, 269
Arizona: San Xavier	1	40.00	1	12.40				
California	28	1, 752. 48	3	106. 52	12	4	8	461
Bishop. Greenville Hoops Valley Round Valley	2 1 19 6	280.00 80.00 1,227.48 165.00	2 1	96. 52 10. 00	7 5	2 2	5 3	361 100
Idaho	349	46, 806. 86	64	4, 232. 18	145	14	131	16, 338
Coeur d'Alene Fort Hall Fort Lapwai	172 69 108	27, 252. 97 11, 403. 94 8, 149. 95	6 58	947. 65 3, 284. 53	56 17 72	5 2 7	51 15 65	8, 482 2, 628 5, 228
Kansas	282	20, 830. 53	94	7, 815. 79	144	20	124	10,036
Kickapoo Potawatomi	150 132	9, 441. 14 11, 389. 39	52 42	4, 492.30 3, 323.49	68 76	12 8	56 68	3, 785 6, 251
Michigan: Mackinac and Mount Pleasant	20	1,903.28	.	202, 24	12	 	12	620

TABLE 28.—Patents in fee issued under act of May 8, 1906 (34 Stat. L., 182), as modified by acts of May 29, 1908 (35 Stat. L., 444), and June 25, 1910 (36 Stat. L., 855)—Continued.

	Patents	in fee issued June 30	from Ma , 1918.	y 8, 1907, to	Applic ing 1 1918.	ations fa ascal ye	rpatents ar endec	in fee dur 1 Zune 30,
States and superintendencies.	Origina	l allotments.	Inher	ited land.			App	roved.
	Num- ber.	Acreage.	Num- ber.	Acreage.	Re- ceived.	De- nied.	Num- ber.	Acreage.
Minnesota	3,827	305, 882. 23	34	2.382.50	161	2	159	12, 191
Fond du Lac	41 24 168 21	2, 737. 50 1, 989. 32 13, 538. 52 1, 776. 89	7 3 15 9	360.00 240.00 1,076.00 706.50	21 1 125 14	2	21 1 123 14	1, 229 60 9, 800 1, 102
White Earth Montana	1,411	285, 840. 00 293, 407. 83	358	46, 715. 28	838	37	801	195, 227
Blackfeet	438	135, 878, 35	2	254.62	436		436	135, 212
CrowFlatheadFort Peck	106 550 317	19, 994. 30 48, 312. 63 89, 222. 55	211 56 89	25, 875. 37 4, 465. 29 16, 120. 00	36 182 184	3 27 7	33 155 177	5,531 12,990 41,504
Nebraska	1, 162	78, 366. 22	527	47, 608. 84	167	46	121	7, 324
Omaha Ponca	626 26	40, 049. 94 3, 365. 06 23, 353. 60	191	24,811.00	67	13	54	3,053
Santee Winnebago	302 208	23, 353. 60 11, 597. 42	268 68	18. 708. 00 4, 089. 84	28 72	27 27	22 45	2, 124 2, 147
Nevada: Carson	3	360.00				• • • • • • • • • • • • • • • • • • • •	•••••	
North Dakota	1,556	302,080.00	203	82.640.47	417	39	378	88, 285
Fort Berthold Fort Totten Standing Rock Turtle Mountain	69 84 482 921	17, 565, 90 7, 672, 80 151, 838, 85 125, 002, 45	8 40 53 102	844.00 3, 190.67 10, 182.21 18, 423.59	41 28 187 161	26 13	41 2 187 148	10. 997 90 57, 940 19, 268
Oklahoma	3,373	297, 050. 94	464	49, 046. 50	944	60	884	83, 196
Cantonment	56	8, 050. 88	29	4, 412. 66	5	1	4	795
aho Klowa Otoe Pawnee Ponca Sac and Fox Seger	500 220 148 160 262 200 43 1,130	57, 930. 98 29, 564. 14 12, 784. 38 18, 297. 31 22, 166. 01 22, 153. 93 4, 357. 77 66, 810. 08	27 24 20 58 38 42 2 189	4,036.49 3,837.86 2,738.15 5,641.58 4,443.36 5,246.00 560.00 12,429.46	176 69 61 123 193 18 1	5 3 5 13 27 3 1	171 66 56 110 166 15	25. 206 9, 949 2, 393 12. 664 14, 145 1, 640
ShawneeOregon	654 490	54, 935. 46 46, 094. 75	35 94	5, 670. 94 8, 741. 62	25 168	2 16	23 152	1,733 20,044
Klamath	108 19 28 330 5	18, 245. 27 2, 754. 09 2, 182. 78 22, 232. 61 680. 00	5 10 18 56 5	802. 72 1, 511. 29 1, 620. 72 4. 046. 89 760. 00	71 4 15 78	2 6 8	69 4 9 70	12,333 607 904 6,200
South Dakota	3,204	608, 004. 76	410	73, 214. 60	988	92	896	212, 292
Cheyenne River. Crow Creek. Lower Brule. Pine Ridge. Rosebud Sisseton. Yankton.	408 116 113 891 631 218 827	120, 904. 84 17, 794. 91 27, 399. 23 203. 722. 52 131, 392. 25 22, 301. 72 84, 489. 29	46 76 7 164 77 11	9, 261. 86 12, 881. 82 1, 069. 92 32, 972. 29 13, 474. 54 1, 124. 14 2, 430. 03	164 70 20 356 306 35	16 25 1 10 18 18	148 45 19 346 288 17 33	44, 567 6, 747 3, 120 99, 323 53, 948 1, 720 2, 864
Utah: Uintah and Ouray		448.00	_	2,400.00			2	2,001

¹ Restrictions removed under act June 21, 1906 (34 Stat. L., 353).

TABLE 28.—Patents in fee issued under act of May 8, 1906 (34 Stat. L., 182), as modified by acts of May 29, 1908 (35 Stat. L., 444), and June 25, 1910 (36 Stat. L., 855).—Continued.

	Patents	in fee issued June 30		y 8, 1906, to	Applications for patents in fee dur- ing fiscal year ended June 30, 1918.			
States and superintendencies.	Origina	l allotments.	Inher	ited land.		_	App	roved.
	Num- ber.	Acreage.	Num- ber.	Acreage.	Re- ceived.	De- nied.	Num- ber.	Acreage.
Washington	613	55, 149. 09	312	24, 185. 51	404	10	394	37,367
ColvilleCushman	225 7	23, 194. 30 730, 00	4 8	320.00 153.90	159 1		159 1	17, 820 160
Spokane Taholah	94 44	9, 390. 50 3, 370. 00	2	160.00	51 47	3 2	48 45	5,324 3,450 321
Tulalip Yakima	19 224	2, 135. 36 16, 328. 93	302	163. 85 23, 387. 76	140	1 4	136	321 10, 292
Wisconsin	1,477	66, 435. 49	245	13, 211. 40	244	1	243	13, 610
Hayward Lac du Flambeau	80 14	6, 135. 04 1, 034, 14	7	538, 10	65	1	64	4,974
La Pointe	131	10.053.98	27	2,364.09	40		` 40	2,886
Oneida	1,206	46, 492. 03	210	10, 229, 21	129		129	5, 220
Red Cliff	46	2, 720. 30	1	80.00	8		8	361
Wyoming: Shoshone	138	14,077.98	36	2, 241. 65	67	3	64	6, 170
Public domain	10	900.00			10		10	900

SUMMARY OF PATENTS IN FEE ISSUED UNDER ACT OF MAY 8, 1906.

	Applica- tions ap- proved.	Acreage approved.
1907 1908 1909 1910 ³	1, 166	92, 132. 50 153, 991. 78 133, 331. 79 99, 339. 10 115, 575. 37
1911 1912 1913 1914 1915	344 520 1,148 940	45, 529, 49 67, 477, 49 152, 405, 44 124, 114, 86 130, 980, 43
1917. 1918	2, 203 4, 379	285, 440. 00 704, 269. 00 2, 084, 587. 25

TABLE 29.—Removals of restrictions.

. Fiscal year.	Quapaw Ok	(Seneca), la. ¹	Five Civilized Tribes.		
,	Number.	Acreage,	Number.	Acreage.	
Aggregate	544	27, 686. 40	11, 456	801, 262. 0	
18	24 20 30 25 72 37 53 68 215	980. 00 916. 88 1, 401. 45 1, 095. 28 3, 889. 35 1, 930. 00 3, 218. 28 4, 104. 91 10, 170. 25	1, 532 1, 438 697 786 1, 106 956 652 953 1, 470 1, 865	141, 524. 3 165, 403. 1 42, 103. 6 50, 077. 3 81, 034. 7 60, 532. 6 45, 075. 5 84, 070. 3 88, 070. 3	

Act of Mar. 3, 1909 (35 Stat. L., 751).
 Act of May 27, 1908 (35 Stat. L., 312); by departmental approval.

Nozz.—Act of Congress dated May 27, 1908 (35 Stat. L., 312), removing restrictions from all lands of intermarted whites, freedmen, and Indians of less than half Indian blood, and from all lands except homesteeds of Indians having half or more than half and less than three-quarters Indian blood, operated to remove restrictions from the lands of 70,000 Indians, who held 8,000,000 acres.

TABLE 30.—Certificates of competency issued during fiscal year ended June 30, 1918, under act of June 25, 1910 (36 Stat. L., 855), to Indians holding fee patents with restrictions as to alienation.

Indians to whom issued	Number.	Acreage.
Aggregate	433	37,890
1918	90 65 33	7, 523 4, 440 9, 042 5, 616 3, 961 1, 600 1, 917 3, 810
Fort Hall, Idaho Mount Pleasant, Mich. Fond du Lac, Minn Lac du Fiambeau, Wis La Pointe, Wis	15 12 21 2 40	2, 628 620 1,229 160 2,886

TABLE 31.—Certificates of competency issued to Kaw and Osage Indians.

	Ka	.W.1	Osage.*	
Fiscal year.	Number.	Acreage	Number.	Acreage.
Aggregate	69	19, 504	499	245, 845
	10 7	1,600 1,120	17 21	8,330 10,395 1,960 5,880
	5 12 1 1	800 1,904 400 480	12 4 23 22 84	1,980 10,890 10,890
•	20 6 6	8,000 2,400 2,400 400	293 19	41, 160 143, 570 9, 310

¹ Act July 1, 1902 (32 Stat. L., 636)

TABLE 32.—Lands leased for mining purposes and production of minerals and royally therefor, fiscal year ended June 30, 1914.

			1899 to 19	1899 to 1917 (both inclustve).	slustve).			Fiscal year	Fiscal year ended June 30, 1918.	e 30, 1918.	
	•				Revenue.					Revenue.	
States and superintendencies.	Kind of lease.	Total production.	Астевде.	Advance royalty and annual rental.	Royalty on pro- duction.	Bonus.	Total production.	Астевде.	Advance royalty and annual rental.	Royalty on pro- duction.	Bonus.
Total			2, 255, 810	\$3, 222, 787	\$31, 413, 502	84, 996, 253		1, 722, 814	\$1,353,200	\$8, 352, 020	\$3,684,328
California: Greenville	Misoellaneous	10, 765	88	124	19, 457		615	€		2,243	
Oklahoma	Gas (cubic feet)	1,836,052,796	1,900	2,675 3,165,073	11, 107 31, 355, 031	4,994,574	1, 519, 504	(e) 1, 663, 620	1,308,878	3,000	3, 493, 603
Cantonment Cleyenne and Arapaho. Klowa. Ossee	Miscellaneous Oil and gas do (Oil (barrels)	4 89, 250, 180	36,228 36,287 90,000	3,034 18,933 148,688	134	28,774 4,274,879	7, 092 10, 906, 377	42,660 280,228	4, 525 25, 208 104, 049	3, 795, 083	3, 268, 313
Оtое. Рампее. Ропса.	Oll (barrels)	1,93,874	2,2,8 6,90,1,	66,639 86,133 7,580	83,382 • 131,785	• 138, 571 27, 749 11, 000	13, 660 14, 660	2,22,22 2,03,22,03,23,03,03,03,03,03,03,03,03,03,03,03,03,03	4,926	\$ \$\frac{2}{2} \frac{2}{2} \fr	8,64
Sac and Fox.	Oil (barrels).	(3) (3) 268, 938, 048	82,88 6,825,835 82,835		7, 107, 167	22, 973 7 41, 660 7 448, 968	13, 140, 464	17,500 5,090 116,037	<u>: ن</u>	3, 142, 191	4, 424 9, 254 212, 968
Five Civilized Tribes (restricted lands)	Gas. (tons) Miscellaneous Coal (tons) ² Asphalt (tons) ² .	(*) 1, 408, 402 13, 733 • 48, 610, 343 • 57, 215	3,880 8,880	100,334 1188,288 112,580	88 86 16,25,25 18,25,25 18,25		3, 227, 595 3, 227, 595 (8)	(e) 1, 240 109, 658 3,880	217 21,978 2,978 2,978	163,409 21,917 258,208	
South Dakota: Pine Ridge. Washington: Spokane. Wyoming.	Oll and Gas		1,380	570	27,907	1,679	15, 169	12,682	4, 254 1, 208 40, 860	112 5,239	1,220
Shoshone	(Oll (barrels). Coal (tons). Miscellaneous. (Oll (barrels)*	29,620 6,234 180 33,852 357,225	9,000 1,562 9,307 50,734	*8.886 1,860 4,763 20,100 18,836	207 80 8 8, 216 22, 396	1,679	43, 481 1, 207 (a) 5, 035	5,123 221 46,288	9, 061 166 31, 633	4,549 121 569	3,029

TABLE 33.—Buildings, etc., completed during the fiscal year ended June 30, 1918.

State and superintendencies.	Improvement.	Cost.
Total		\$400, 435. 19
Arizona:	Boys' lavatory annex	0.630.65
Fort Apache	Completing dormitory	2,630.00 1,000.00
Do	Forester's cottage	700.00
Do	Improvements to sewer	500.00
Salt_River	Cottage, barn, shed, and tank	3, 170. 00
Do	Repairing farmers' quarters	1,261.20
San Xavier (Indian Oasis) Do	Maln buildings, lighting, water, and sewer systems Barn	26, 101. 69 1, 620. 00
Do	Shop	800.00
Do	Repairs to buildings	488.53
Pima	Office	3, 159. 6
Do	Warehouse Superintendent's cottage	6, 228. 97
Do	Employees' cottage	3, 105. 76 2, 504. 22
Do	Field matron's cottage	1, 333. 14
Do	Cotton gin. Alterations to school building	1, 270.00
<u>D</u> o	Alterations to school building	785.59
Do	Employees' quarters	1,109.00
Do Navajo	Three cottages. Completing a dormitory	1, 974.00 690.00
Leupp	Winslow hadea	15, 824. 40
Colorado River	Winslow bridge	2, 750. 00
Rice Station	Reservoir	1,900.00
San Carlos	Piping for water mains. Repairs to Black River bridge.	1, 405. 20
Do	Repairs to Black River bridge	847.00
alifornia:	One day seheel	1 005 0
Round Valley	One day school	1,085.00 1,075.00
Do	Concreting reservoir.	1, 115.00
Fort Bidwell	Garage	500.00
Do	Lavatory annex	2,084.50
CampoFort Yuma	Two frame buildings Horse barn and corral	650.00
Do	Dairy barn	1, 305. 34
Sherman	Employees' cottage	1, 157. 77 801. 62
Do	Forge and shop.	687.52
Do	Addition and screen porches to Minnehaha Lodge	3, 024. 98
olorado:	Program house	
Southern Ute	Pump house	2, 310. 66
Do	Commissary	1, 250. 00 2, 100. 90
Do	Barn	1,500.00
Do	Granary	381.50
laho:	TT	
Fort Lapwai	Heating system, office. Employees' cottage.	1,075.00
Do Do	Dairy barn.	4, 199. 55 2, 200. 00
Fort Lapwai Sanstorium	Silo	838.05
Do	Silo	1,726.81
ansas:	VT }	
Haskell	Hog house. Chicken house.	490.00
Do	Barn.	550.00 3,907.00
lichigan:		0, 307.00
Mount Pleasant	Dairyman's cottage	1,400.00
Do	Hennery	1, 200.00
finnesota: Red Lake (Cross Lake)	Remodeling main buildin ;	
Do	Heating plants	6, 971. 97 2, 761. 58
Nett Lake Agency	Two employees' quarters. Three employees' quarters.	2, 600.00
Nett Lake School	Three employees quarters	5,000,00
Do	Watako	250.00
Pipestone	Ditch work Repairs to dining hall	1,900.00
Do	Septic tank and sewer	609.50 5,500.00
Do	Heating system	16,000.00
White Earth	Dairy barn	2,000.00
Do	Remodeling dormitory	5, 511. 62
D0	Heating installation, dormitory	599. 81
fontana: Rocky Boy Jebraska:	Log house for farmer	657.00
Genoa	Boiler, water and sewer systems	3, 580.00
Do	Addition to hospital	2,500.00
Santee	Addition to hospital. Niobrara bridge, 65-foot span	6, 500. 00
levada:		-
Fort McDermitt	Sewer system	1, 481. 24 1, 700. 00
Fallon.	Employees' quarters	1, 700.00 850.00
Moapa River	Schoolhouse	1,807.00
Carson	Dairy barn	5,000.00
Do	Addition to gymnasium Addition to hospital	1,899.17
Do	Addition to hospital	2,890.08
Walker River	Flour mill	2, 645, 15

TABLE 33.—Buildings, etc., completed during the fiscal year ended June 30, 1918—Con.

State and superintendencies.	Improvement.	Cost.
New Mexico:		
Zum	Coal shed	\$250.0
Mescalero	(lerk's cottage	2, 500. (
Jicarilla	Hay barn	600.0
Do	Garage (ottage No. 9	300.0
Do	(ottage No. 9.	2,000.0
Pueblo Bonito	Industrial building	7. 550. (
Tohatchi	Addition to schoolhouse	30, 225, 0
San Carlos	Addition to schoolhouse	1. 173. 6
San Juan	Lee plant	1, 377. 0
Do	Completing hospital	. 3, 510. 7
forth Dakota:	i i i i i i i i i i i i i i i i i i i	
Turtle Mountain	Cisterns 1, 2, and 3	1. 200. (
Fort Berthold	Machine shed	1, 215.
Fort Totten	Drilling well	2, 125.
klahoma:	•	•
Cherokee O. T. Echool	Tahlequah road	10, 000.
Do	Tahlequah road Heating plant, main building and schoolhouse	6, 000.
Kiowa		3, 249.
Do	Employees one of any	3, 249.
Do	Principal's cottage	2, 649,
Kiowa (Fort Sill)	Sleeping northes for dormitories	2, 200.
Kiowa (Riverside,	Useting system principal's sottems	807.
Kiowa (Rainy Mountain)	Principal's cottage. Sleeping porches for dormitories. Heating system, principal's cottage. Repairing boys' building. Dairy barn.	560.
Propes possession action	Doles have	
Euchee boarding school	Callan	2,000.
Do	Willer	300.
Do	Blacksmith shop	200.
Mekusukey	Septic tank	482.
Eufaula	Employees' Lodge	7, 016.
Nuyaka	Manual-training shop Barn and implement shed.	3, 348.
Pawnee	Barn and implement shed	1, 025.
Ponca	Warehouse	584.
Bloomfield	Water mains	1, 700.
Do	Sewer connection with city of Ardmore	2, 500.
Do	Gas piping	1,999.
Cantonment	Improvements to water system	2,849.
Seger	Cottage	1, 565.
regon: Umatilla	Two steel bridges (Mission and Thorn Hollow)	26,000.
Do	Wagon house	508.
Do	Garage	292.
Salem.	Onion house	1,000.
	Domodoling sower	4, 700.
Do	Remodeling sewer	
Do	Boiler installation	2, 075.
Klamath	Garage	644.
ennsylvania:	m at	***
Carlisle	Refrigerator	600.
outh Dakota:		
Lower Brule	Barn	2,000.
Do	Garage	665.
Do	Repairs to water pipes	975.
Pierre	Dairy barn	3, 958.
Do	Boiler installation	4, 000.
Springfield	Superintendent's cottage	4, 095.
Flandreau	Coal shed	412.
Do	Chicken house	457.
Do	Horse barn	2, 267.
Rosebud	Physician's cottage	4, 684.
Do	Council hall	500.
Yankton	Completing water system	2, 385.
Canton Asylum	Two cistorns	1.094.
Cheyenne River	Farmers' cottage	2, 447.
Do	Dom	*, ** 800.
Do	Barn	485.
	Repairing bridge, whitehorse	180.
tah:		
Uintah	Heating plant hospital	3 , 750.
Shivwits	Granary	435.
Goshute	Cottage	600.
Vashington:	·	
Spokane	do	672.
Tulalip	Chicken house	191.
Dó	fewer	485.
Do	Gutters on dormitories	1, 199.
Do	Painting schoolhouses.	2,511.
Cushman (Chehalis)	Schoolhouse.	1, 430.
Cushman (Jamestown)	Water and sewer systems.	1, 033.
Visconsin:	THE REAL SONCE STOICHES	1,000.
	Inc house	1 145
	Ice house	1, 165.
Tomah	Cattle shed	365.
Keshena		615.
Keshena Do	Pump house	
Keshena Do Do	Horse barn	4,600.
Keshena Do Do	Horse barn	4,600. 3,200.
Keshena Do. Do. Hayward	Pump house Horse barn Dairy barn	4,600.
Keshena	Horse harn	4, 600. 3, 200.
Keshena Do. Do. Hayward	Horse barn	4,600.
Keshena	Horse harn	4, 6 3, 2 1, 0

Table 34.—Buildings, etc., under construction or contract during fiscal year ended June 30, 1918.

State and superintendencies.	Improvement.	Amount of authority granted up to July 1, 1918.
Total		\$406, 104. 41
Arizona: Fort Apache Camp Verde San Xavier (Vamori and Santa Rosa).	Boys' dormitory. Water and sewer systems. Outhouses.	32,903.51 3,500.00 805.99
Do	Repairs to buildings Employees' quarters Addition to water system Water system	1,526.40 5,674.26 16,000.00 1,463.34
Southern Ute	Electric lighting plant. Employees' cottage. Addition to power house. Two cottages.	4,395.00 5,000.00 2,260.66
Do	Two cottages. Two dormitories Schoolhouse. Mess hall. Power house and laundry. Water and sewer systems. Timber truss bridge.	49, 833.78
Do	Employees' cottage	- 10,000.00 3,566.00
Do	Heating plant for cottage	633. 55
Michigan: Mount Pleasant Montana:	Repairing cottages Laundry Barn, dairy	1,397.58 5,311 54 8,000.00
Fort Belknap Do Fort Belknap (Lodgepole) Tongue River. Nebraska: Genoa. Nevada: Western Shoshone New Maxico:	Flour mill. Repairing dairy barn. Schoolhouse and cottage. Dairy barn. Two employees' cottages. Day schools 1 and 2.	3, 036. 55 1, 400. 00 3, 816. 00 2, 800. 00 5, 251. 40 4, 000. 00
San Juan. Do Navajo (Tohatchi) Do Do Pueblo Bonito	Repairs to hospital. One steel bridge. Frame dormitory. Remodeling old dormitory. Repairs to school buildings. Addition to power house and boiler setting.	600.00 25,172.00 46,600.00 5,119.39 5,490.00 2,817.00 2,960.00
North Carolina: Cherokee North Dakota: Turtle Mountain Wahpeton	Flour mill Assembly hall and gymnasium Improvements to heating plant Two cottages. Industrial cottage.	4,000.00 4,000.00 442.09 4,863.70 1,200.00
Oklahoma: Kiowa Bloomfield Tishomingo Ponca Shawnee Cherokee O. T. School Euchee	Lavatory annexes. Laundry and heating plant. Two dormitories. Sait Fork Bridge. Heating plant. Lavatory annex, girls' dormitory. Dining hall.	2, 200.00 19, 938.00 54, 900.00 5, 986.7 2, 072.00 4, 403.99 1, 365.00
Oregon: Salem Klamath Umatilla (Tutuilla) South Dakota:	Addition to hospital. Office building. Day school and outhouses.	3,728.71 4,319.89 4,381.30
Flandreau Do Pietre Rosebud Do Do Do Pietre Rosebud	Water tank Improvements to water system Silo Repairs to day schools Office Lavatory annexes. Remodeling schoolhouse	1,313.17 1,091.35 1,020.60 1,388.49 750.59 4,727.84 2,700.00
Wisconsin: Lac du Flambeau Do Wyoming: Shoshone	Employees' quarters No. 112 Cottage No. 113 Hospital	9, 780. 00 2, 529. 52 5, 757. 25

TABLE 35.—Number and value of individual and tribal live stock, poultry, etc., belonging to Indians, and value of stock purchased, sold, and slaughtered, facely

82607°-INT 1918-VOL 2-

r. Value of stock.	£	d bulls. Sold. ¹ Islaugh-	455 83, 996, 441 81, 137, 583 456, 3, 234, 318 1, 187, 513 439 634 2, 258, 369 1, 093, 179 904 1, 194 2, 114, 623 1, 199, 733	1,018 1,599,633 571, 1,783,950 535, 1,571,796 490,		310 4 1, 282, 442 751, 741	1,500 1,200 21,340 3,750	725 596	:	250 14,116 1,460	18,517 2,250	215,236 45,000	60 4 11,206 33,606	Includes 654 steer calves.
Stock purchased current year.	Num		1,419 12 1,919 2,399 20 5,239 2,257 43 7,439 3,682 72 15,304	8		*							÷	⁷ Include
Stock purchas	Value	Total mis- horses, value. cella- mares, neous. and mules.	587, 255 \$9, 408 1, 688, 117 30, 056 2, 634, 445 57, 685 2, 508, 525 48, 575 3, 608, 525 48, 575 3,	32, 274		16, 892 522		200	72 72	12, 150			4,470 450	
		goats. va	1, 492, 657 1, 472, 322 1, 562, 600 2, 091, 883	1, 980, 918 1, 780, 981 1, 789, 287 1, 219, 157	964,759	987, 205		310	155,000	620,000	900		000,000	and mules.
reservation.	Cattle.	Steers. Bulls.	86, 543 7, 869 82, 550 6, 708 67, 502 6, 483 68, 948 6, 055	¥,8,€€€	$ \mathbf{x} $	21, 553 2, 106	1,500 400		988	8,400 150 150 120 120 120 120	44,000	, , ,	2,520	Included with horses and mules.
Number of stock on reservation.		lions and Cows acks. and heffers.	5, 039 235, 201 5, 172 217, 693 5, 382 202, 784 9, 433 187, 606	10, 772186, 996 25, 254160, 127 (*) 285, 114 (*) 289, 321 (*) 289, 321	(×)	2,339 51,402	46 1, 162 7 9,000	: 8 3 3 S	_	557 5,900 48 566		21 8,20 88	500, 2, 904	4 Include
Num		and Mares.	154, 119 92, 386 156, 021 88, 074 174, 736 87, 344 113, 528 147, 319	215, 616 145, 058 438, 908 233, 586 531, 123 (4) 530, 000 (4)	E3,244	57, 521 17, 412	35 20. 271 267 3,050 3,000	337 275 25 10	:	2,850 2,850 3,850 650 650	2,530 900	8, 380 180 0.00	6,300, 6,000,	
Value.		(burros, swine, poultry).	\$848, 808 641, 066 487, 516 442, 056	£90, 283 ©		52 59,396	16,386 16,386 16,000	:	:	25.25 43, 25.28		6,447	1,903	
Ze /	•	All stock.	<u> </u>	22, 462, 494 22, 777, 075 17, 971, 208		7, 997, 452	101,256		• • •	×°	167,74			calso.
	States and superintendencies.		Total, 1918. 1917. 1916.	1914 1913 1911 1911	1800.	Arisona	Camp Verde. Colorado River. Fort Apache.	Havasupai Kaibab	Loupp	Navajo Fima Salt River	San Carlos	San Xavier 9. Truxton Caffon.	Tribal	Includes some tribal stock a

TABLE 35.—Number and value of individual and tribal live stock, poultry, etc., belonging to Indians, and value of stock purchased, sold, and slaughtered, facal year ended June 30, 1918—Continued.

					i					į							
	Value.	6		N	nber of	stock or	Number of stock on reservation	tion.		Stc	ck pure	Stock purchased current year.	urrent	year.		Value of stock.	stock.
States and superintendencies.			Horses		Stal-		Cattle.		Sheep		_	Num- ber			ģ		1
	All stock.	(burros, swine, poultry).	and mules.	Магев.	and Jacks.	Cows and heifers.	Steers.	Bulls,	and goats.	value.	cella- r neous.		star- lions and acks.	snd b	ber bulls.	Bold.	tered.
California.	\$593, 226	\$59, 567	2,690	2,117	22	3, 127	988	123	1,602	\$2,746	\$400	\$18		: %		\$65, 945	\$9,380
Bishop	65,060	3,710	725	38.		125	돲	-5	1,260	1,486	Q	•		81		4,823	
Digger Fort Vima						***				325		-		CN .		1,750	250
Greenville. Hoops Valley. Malid	# 4 8 8 6 15 15 15 15 15 15 15 15 15 15 15 15 15	8, 4, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	885	538		585				395		C4		-		11,950	1,600
Pala Round Valley			-	•		83	អត្តន	<u> </u>								10, 107 9, 150	2,023
Soboba Tule River	_	7,185	315	25.8	101	38.2			83	042		*		7		4,810	4,123
Colorado	185, 279	6,999	975		. 2	1, 530	98	28	5,350	2,530	-	12	:	13 :	-	3,810	535
Southern Ute. Ute Mountain. Tribal.	51, 179 121, 500 12, 600	66	475 \$ 500		21.	1,400	009	e 3	3,500	2,530		2		\$ 13		2,690	585
Florida: Seminole	11,975	6,300	ង	10		-	ล		300				-	÷	÷	:	1,060
Idaho	- 790,663	22,336	3,892	2,262	92	7,546	1,511	8	100	12, 427	239	<u>8</u>	:	*	-	120,463	20,230
Coeur d'Alene Fort Hall		12,875 4,826	1,130	1,800	213	1.4, 84	1,025	5. 5.		6,412		83		8		39,805 80,658	17,825 2,405
Fort Lapwal Iowa: Sac and Fox	20,50 10,20 20,50	4,635 1,200	1,262	100	22	1,046	128	32	82	6,015	233	9		15		8	290
Kansas	465, 920	119,375	972	88	œ	1,039	354	జ		3,595	125	8	•	.	-	68,600	7,670
Kickapoo Potawatomi	308, 663 157, 227	2,2, 25,33	872 300	25 S		88	345	2 °		1,450	<u> </u>	6 9				96,600	7,670
Michigan: Mackinac	17,966	2,006	19	-	_	8		_ <u>;</u>				i	-	<u> </u>	_		

25, 200 10, 137	372,000 128,536 32,500 33,500 1,660 1,154 88,966 8,968		(e) (c) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e
	255 55 56 58 58 58 58 58 58 58 58 58 58 58 58 58		(*) 20 308, 118, 118, 210, 118, 370, 370, 370, 370, 370, 370, 370, 370
6 90 ei 18	<u> </u>	- CO (CO	2 2 12 1 12 1 12 1 1 1 1 1 1 1 1 1 1 1
9, 153 100 473 340 8, 338 100	1, 332 1, 332 1, 500 1, 500 2, 243 13, 746 20	2000	6, 663 2, 000 2, 063 2, 000 4, 200 150 150
350 6,250 8	3,000		715 476,659 77 9,840 77 9,840 7,150 86 17,150 80 18,100 80 18,100 60 47,000
-	20,000 400 1,200 110 1,200 110 1,200 110 1,200 110 1,000 45 1,700 60	756 67 11 17 11 11 11 37	88.000 c, 1.000 c, 1.
1, 67,	73, 35, 000 107, 12, 260 100, 5, 450 100, 5, 450 100, 5, 450 11, 200 11, 300 11, 300	2 260 2 160 7 2 828 2 2 2 6 6 6 6 6 6 6 7 1 6 7 1 , 438	979 17, 28 570 17, 728 570 17, 728 10, 2, 650 10, 2, 650 880 5, 601 880 700
: : :!	8,000 8,000 2,000 2,000 2,000 2,000 2,000 2,000 1,701 4,000	1,210 650 710 550 500 100 4,413 728 89 107 281 (7) 183 184 8 184 8 184 8 184 8 184 8 184 8 184	3,000 1,505 1,505 1,505 1,505 3,100 3,000 9,000 9,000 440 440 440
25.013 55,144 30.086 1,284 37.086 1,410 2.001 2.00 2.001 2.00 1165,200 31,700 105,500 31,700	866, 625 387, 205 867, 820 867, 820 94, 800 94, 800 11, 506 11, 722 11, 722 11, 722 12, 200 11, 722 12, 200 11, 722 12, 200 12, 200 13, 200 14, 215 14, 215 160 17, 215 180 180 180 180 180 180 180 180 180 180	317, 365 113, 940 173, 940 173, 940 174, 965 173, 945 17, 945	35,300 4,300 132,006 340 182,006 340 188,706 188,500 1,302,716 8413 1,302,716 8413 1,302,716 8413 1,302,016 3,000 1,514,000 3,000 1,514,000 5,680
, e,	*		, 10 sg
Minnesota Fond du Lac Grand Puttago Local Lake Nett Lake Pipostone (Birch Cooley). Red Lake White Earth	Blackfeet Tribal Crow Tribal Tribal Tribal Fathead Tribal Fort Belknap Fort Perior Fort Power Tribal Fort Power Tribal	Nebraska. Omaha. Winnebago. Nevada. Fallon. Frallon. Frallon. Frallon. Frallon. Frallon. Frallon. My salker River. Tribal. Western Shoshone. Tribal.	Reno Special Agent 4 Mew Maxico Jicarilla Mescalaro Tribal Pueblo Bonito Pueblo day schools Ban Juan Zuni

TABLE 35.—Number and value of individual and tribal live stock, poultry, etc., belonging to Indians, and value of stock purchased, sold, and slaughtered, facal year ended June 30, 1918—Continued.

	Value.	16.		Nm	nber of	stock or	Number of stock on reservation	tion.		82	Stock purchased current year.	chased	current	year.		Value of stock.	stock.
States and superintendencies.		Other			Stal-		Cattle.		5		Value			Num- ber	إ		
	All stock.	stock (burros, swine, poultry).	and mules.	Mares.	llons and jacks.	Cows and neifers.	Steers.	Bulls.	and and goats.	Total value.		horses, mares, and mules.	stal- lions and jacks.	cows and heffers.	bulls.	Sold.	Slaugh- tered.
North Carolina: Cherokee	81, 575	14, 125	100	8		8	98	8	321							16,375	
North Dakota	1,711,838	10,578	7,287	2,817	2	9, 565	3,392	257	352	13, 292	118	8	-	87		177,780	21, 180
Fort Berthold Fort Totten Standing Bock Tribsi Turite Mountain	622,060 59,356 781,517 28,500 220,405	2,400 1,211 2,062 4,905	4,008 250 2,177 852	(t) 250 2,117 450	21 88°°°	3,250 5,390 900	1,750	2 832	350	4, 638 8, 304 350	118	88	-	28 118		142,650 1,750 33,380 (*)	20, 780
Oklahoma	1,812,166	114, 290	5,280	2,046	37	6,570	4,818	196	179	44,523	190	25	•	88	91	203, 358	41,338
Cantonment Chayenne and Arapaho. Klowa. Klowa. Chage. Ottoe. Pawnee. Pawnee. Been fox. Benear	188, 150 889, 739 77, 355 77, 355 89, 888 77, 559 89, 888 70, 815 81, 835 81, 832	2, 000 2, 2, 500 2, 500 3, 500 3, 500 3, 500 5, 500 6,	2,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	(e) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 6 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4,500 7,7 28 82 82 114	7.4.6.00 4 70 EEE	01 420 106 1000	7, 153 15, 750 5, 200 4, 100 6, 575 4, 250	90 92	28 2 22 2 8		#32 #40 #40 #40 #40	1 8 18	23.750 23.750 144 1.4684 2,060 2,060 2,970	350 - (*) 36,900 1,508 1,508 1,560
Oregon	1, 286, 561	22,674	4,920	1,458	152 1	12,086	2,023	134	205	20,218	:	9 0	•	405		132,018	9, 200
Klamath * Tribal Bildt. Umatilla. Warn Springs.	921, 770 9,000 19,972 259,020 71,132 5,667	2,420 1,692 17,290 1,282	2,050 1,650 1,150	09 88 E	2 327	11,350 134 200 400 20	1,600	52.552.50	805	20,218		oc .		402		83,000 32,375 16,643	(*) 8,400 800

48,630	(e) 6226 6826 6860 115, 0773	2,150	19, 478	16,944 606 1,230	9 98	€ 2378 3,882	5, 629	2,660	2,660	
470, 582	70, 150 (*) 850 11, 410 814, 783 66, 240 14, 150	16, 250	135, 810	114, 520 5, 369 1, 036 2, 980	11,965 (e)	€.1.4 888.	009 '6	31, 100	31, 100	onies.
80		£ 5	\$	8	:					 Includes ponies Includes colts.
200	20 5 5 132 6	8	. 2		108	8 10	8 % 8	æ	12	• • 10
•	63 63	-			: : :					
384	8 8 8 8 8	8 48	7 7		4 5 ₹	308	**************************************	#	#	ded.
3,200	480 208 660 660	080	8		. 25. 75.	810	15 % ±	8	8	ot inclu
63, 509	4, 444 5, 386 13, 868 31, 450 8, 301	51,823	15,304	4,186	9,397	7, 190 750 6, 150	8, 550 2, 579	6,247	6, 247	7 Ponies not included. 8 No record.
2, 983	2, 120 1, 092 249 274	3,511	6,319		1,319 5,000	98	69	200	2460	
1,641	1,088 108 108 108 108 108 108 108 108 108	162	210	121 9 3	8 22%	여덟여	• 00	262	90 172	ers.
9, 638	1,009 800 700 73 73 73 73 73 73 80 80	550	2,88	1, 65 88 82 171	528	2 2	8	3,706	1,200	Includes steers.
26,964	4,720 1,800 1,600 1,601 11,661 11,664 5,785	6,020	7,392	4,774 1325 136 145 340	500 1,113	2 8 3 E	1,055	8,902	4, 402	• Ind
£	228 222 224 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25			8 442	7 20-	C1	25	131	110 21	
22, 352	6, 807 1, 608 1, 140 1, 140 4, 574 1, 000	E 3=5	1,844	1, 426 64 46 135	25.5 8 E	858	387±°2	1,300	1,300	78:
18,973	7, 286 1, 200 1, 200 1, 254 1, 221 1, 221 1, 221	78 721 88		2,1 28,52,52 3,52 3	45 E	300	88888	1,225	10 1, 202 23	Not reported.
80, 835	1,177 1,940 1,940 1,980 16,383 16,389 16,389 10,918	275 275 65	42,941	27,002 1,792 150 737	12,730 200 200 11,730	2,0,0,	1.8.4. 88.458	2,320	2,320	N.
4, 438, 580	911,532 857,109 9,800 833,573 86,868 1,413,317 10,550 1,144,304 16,500 168,777	11,826 5,266	900, 475	8,4,4,5,4,6 8,5,5,5,6,6	86,806 131,780	27,389 28,280 396,5	28,88 90,67 11,88 80,67 11,88	808, 116	477, 570 420, 546	.ses.
South Dakota	Cheyeane River Fribal Crow Creek Flandreau Lower Brule Tribal Pine Ridge Tribal Rosebud Tribal Rosebud Slaseston	Utah. Goshute. Shiyewita	Washington	Colvilie Tribal Cuahman Neah Bay Spokane	Taholah Tulalip Yakima	Grand Rapids ' Hayward Keshena.	Lad du riambeau Lacona La Pointe Oneida Red Cliff	Wyoming	Shoshone	¹ Included with horse a Includes calves.

TABLE 36.—Distribution of Government property valuations June 30, 1918.

States and superintendencies.	Total value.	General adminis- tration.	Health.	Allot- ting.	Irriga- tion.	Farm- ing.	Fores- try.	School.
Grand total	\$40, 160, 810	\$3,357,364	\$1,532,469	\$3 8, 887	\$17,334,984	\$1,739,737	\$1, 120, 679	\$15,036,690
Arizona	3,039,075	313,316	235,459	22,675	19,565	181,982	34,020	2, 232, 053
Camp Verde Colorado River	52, 270 107, 767	37, 120 10, 849	325 -2,759			12, 407		14, 825 81, 752 276, 735
Fort Apache	376.911	68.757	11,870			12,084	19,549	276, 735
Fort Mojave Havasupia	115, 154 7, 610	1,050 2,755	6,847 240	•••••		12,034	••••••	95, 173 3, 055
Kaibab	6,840 110,366	. 1.XXZ	1 70					4,888
Leupp	110,366	15, 160	7,440	• • • • • • • • • • • • • • • • • • • •	1,465	6,111		80, 190 117, 000
Moqui Navajo 1	175,900 474,610	24,000 42,075	29,000 48,000			5,900 8,500	2,621	373, 414
Phoenix	474,610 737,234		81,612					655 622
Pima!	243.066	3.437	19,075	350	12, 555	91,882		115, 767
Rice Station	119,623 41,835	18 848	4,825 635					114, 798 22, 352 28, 757
Salt River San Carlos	1 146.012	1 77 7% IN	5,350	22, 325			11,850	28, 757
San Xavier	53,798	4,473	3,377		1	11,868		34,(14)
Truxton Canon Western Navajo	53,798 122,288 2 147,791	5, 180	7,894 6,140	; -	5,545	31,670		108, 849 104, 801
Woston Marajo	- 171,101	0,100	0,140			01,010		201,021
California	1,051,261	43,945	48, 825	125	42,561	79, 180	5, 408	831, 217
Bishop	32,439	760	100		1 (440		31,014
Campo	11,968	2, 285	200	¦		1,200		8, 283 10, 785
Digger	10,785 81,814	650						81.164
Fort Bidwell Fort Yuma	107.944	2,400	1					105, 544
Greenville	78,943	1	5.105					73,838
Hoopa Valley Malki	90,514	5,025	16,475 110	:	1,000	6,075	2,275	60,664
Pala	16, 189 70, 804	12,860	1,620		41,486	4,260		2, 120 10, 578
Round Valley Sherman Insti-	88, 177	3,850				500	-,	80,372
tute	404,049 41,969		24,365	·		63, 432 3, 273		316, 252 37, 146
SobobaTule River	41,969 15,666	1,250 1,906	300		75	3,273	228	37, 146 13, 457
TIME DIVEL	13,000	1,900			"		220	10, 101
Colorado	110,512	35, 141	1,139		2,140	13,790		58,302
Southern Ute	74,690	21,455			2,140			51,095
Ute Mountain 1	35, 822	13,686	1,139			13,790		7,207
Idaho	481,559	93,903			25, 590	34,853		225, 501
Coeur d'Alene	65,014		1,620 12,001			980	1,094	10, 488
Fort Hall Fort Lapwai	281,453 135,092	43,071	12,001 85,997		25, 590	26,887 6,986	1,000	173,904 41,109
	100,002		00,001			0,500	1,000	
Iowa: Sac and Fox	90, 168		83,840			•••••		6,328
Kansas	630,943	9,550	25, 315	<u></u>		138, 111		457,967
Haskell Institute.	532,043		25,038			130,675		376,330
Kickapoo Potawatomi	84, 478 14, 422	9,550	277			7, 436	ı	76, 765 4, 872
r otawatomi	14,422	9,000	i	1		•••••	• • • • • • • • • • • • • • • • • • • •	1,012
Michigan	240, 597	310	11,515	·				228,772
Mackinac 1	2,385	310	····					2,075
Mount Pleasant	288, 212		11,515	; 				226,697
Minnesota	861,030		89,844			8,016	33, 256	595 , 657
Cass Lake	15,660							15,660
Fond du Lac	37,039	7,525	25, 124			80		15,660 4,310
Grand Portage 1 Leech Lake	15,660 37,039 9,482 118,648	7,525 9,132 42,276	6,732	[350	69,640
Nett Lake	1 00.100	1 2. <i>2</i> 00	275				271	34,012
Pipestone	169,080 169,369		i 6.040	,				34,012 163,040
Red Lake Vermillion Lake.	169,369 81,470	23,704	25,029	i		7,936	8,635 24,000	104,065 57,470
White Earth	221,524	47,420	26,644				,	147,460
	017 renort				1 Decrees	d valuation		,

1 1917 report.

¹ Decreased valuation.



Table 36.—Distribution of Government property valuations June 30, 1918—Continued.

States and superintendencies.	Total value.	General adminis- tration.	Health.	Allot- ting.	Irriga- tion.	Farm- ing.	Fores- try.	School.
Montana	\$1, 445, 143	\$369,722	267, 168	\$740	\$248, 25 5	\$138,360	\$18,900	\$601,998
Blackfeet Crow	180, 432 278, 128 351, 321 344, 142 155, 153		1,480 3,300	740	246,755	6, 555 45, 700 6, 509 42, 700 12, 985	475 12,025 3,000	110, 467 110, 787 574 230, 097 75, 278
Rocky Boy's Agency Tongue River	9, 722 126, 245	5,305 24,244	112 2, 700		1,500	3,005 20,9 06	3,400	1,300 78,495
Nebraska	538, 403	74,920	36, 24 8			81,930		395, 306
Genoa Omaha Santee ² Winnebago	394, 180 38, 480 105, 743	10,875 6,550 57,495	36,248			31,930		383, 305 12, 000
Nevada	417,537	87,419	44, 164	25	4,310	66,386		215, 233
Carson Fallon Fort McDermitt Moapa River Nevada Walker River Western Shoshone	140, 626 17, 098 17, 342 7, 574 82, 160 26, 954 97, 634	3,835	21, 297 850 100 1, 565 20, 276	25	110	37, 363 3, 533 7, 267 18, 223		80, 170 17, 098 9, 099 6, 154 73, 460 7, 047 22, 182
Reno, special agent	28, 149	28,050	,					23
Albuquerque Jicarilla Mescalero Pueblo Bonito	1,657,159 347,661 168,863 161,903 145,967	9, 631 35, 295 24, 998	111,878 12,044 21,974 21,700 1,300	250	11,475	95, 548 20, 095 11, 150 9, 040	25, 170 11, 070 10, 650	1,832,314 825,986 80,429 93,405 135,377
Pueblo day schools San Juan Santa, Fe Zuni	139, 554 304, 345 237, 283 151, 583	1,600 8,750 250	16, 274 26, 190 3, 108 9, 288		11,475	12, 168 16, 970 26, 125	8,300 150	109, 512 249, 135 234, 175 104, 295
New York: New York Agency	710	135	575	•••••				••••••
North Carolina: Cherokee	145, 377						4,000	141,877
North Dakota	1,094,592		77, 470		313	111,034		728,620
Bismarck *	84,361 118,378 229,911 342,139 92,653 227,150	54, 695 7, 729 69, 302 39, 556 5, 873	2, 125 6, 611 31, 775 16, 844 20, 115		313	53,300 4,010 48,108 5,616		84, 361 7, 945 211, 561 192, 954 30, 637 201, 162
Oklahoma	3, 440, 734	192,719	167, 685	1,005		239, 808		2, 839, 517
Cantonment Cheyenne and Arapaho Chiloceo Choctaw - Chicka-	140, 649 413, 297 860, 745	6,000 23,439	740 20,803	75		59, 200 87, 984		74,634 281,071 860,745
saw Sanatorium Kiowa Osage Otoe Pawnee Ponca	73,554 603,344 221,833 63,808 126,940 83,109 54,743 174,731 23,245 113,698	42, 950 40, 740 23, 323 21, 896	716			77,324 1,200		422, 245 178, 653 63, 808 102, 901 60, 963 40, 811
Sac and Fox Seger	174,731	21, 896 12, 762 15, 299	1,170 7,005	930	¦			40, 811 151, 497 23, 245 107, 388

As reported.

⁻ Santee included under Yankton, S. Dak. 1917 report.

TABLE 36.—Distribution of Government property valuations June 30, 1918—Continued.

					,		,	
States and superintendencies.	Total value.	General adminis- tration.	Health.	Allot- ting.	Irriga- tion.	Farm- ing.	Fores- try.	School.
Okiahoma—Contd. Five Civilized Tribes schools	\$487,038		\$1,382			\$14,100		\$471,556
Armstrong Academy Bloomfield	55, 617							55, 617
Seminary	45, 435							45, 435
Cherokee Or- phan School	68, 633	•						, 68, 63 3
Euchee Boarding School Eufaula	52, 025	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		10,600		41, 425
Boarding School Jones Male	49, 135		963			3, 500		44,667
Academy Mekusu ke y	33,874	· · · · · · · · · · · · ·		· · · · · · ·				33, 874
Academy Nuyaka	61,414		350					61,064
Boarding School Tuskaho ma	42,940		64					42, 876
Academy Wheelock	39, 855	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		39, 855
Academy	38, 110	• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·				38, 110
Oregon	821, 525	\$23,978	7,048	\$30	\$12,707	101, 274	\$38, 240	638, 248
Klamath 1 Roseburg 1	163, 240 2, 280 391, 810	6,775 2,200	2,440	30	9,319	11,735	25, 260 50	107,711
Salem	391,810 18,956 146,254 98,985	7,883 3,145 3,975	1,888	- · · · · · · · ·	3,388	86, 539 3, 000	500 580	391,810 8,685 52,602 77,440
Pennsylvania: Car-	559, 767		27, 525			91, 592		440, 650
South Dakota	3, 068, 915	674, 372	297, 181	5, 058	27, 440	310,046	189, 132	1, 565, 691
Canton Asylum Cheyenne River	139, 974 454, 284	228 332	139, 974	4,398 225		48,309		128, 917
Crow Creek Flandreau Lower Brule	130, 297 306, 710	30, 946 7, 750 52, 212	17,571 4,625 6,017			18,000 56,164		63, 555 238, 171
Pierre Pine Ridge	119,004, 290,973 703,537	196, 800	6,902 21,547	430	28,500	8,850 55,563 30,660		51, 925 202, 008 265, 043
Rapid City Rosebud	263,575 444,868	4,390 99,933	5, 145 48, 100		940	66, 195 24, 860		187, 845 270, 960
Sisseton Springfield	81,272 36,991	19,361	450		***************************************	21,000		61,461 36,991
Yankton	97, 430	34,648	2, 522		· · · · · · · · · · · · · · · · · · ·	1,445		58, 815
Utah	218,758	123,484	6,710		47, 967		4,360	36, 237
Goshute Shivwits Uintah and	7, 260 12, 770	485	200					7, 260 12, 085
Ouray 1	198, 728	122, 999	6, 510		47,967		4,360	16, 892
Washington	1,492,508	653, 951	60,170			67, 249		659, 229
Colville Cushman Neah Bay	189, 292 364, 956 12, 251	70, 754 110 7, 551	5, 193 11, 000			58, 639	34, 334	20,372 353,846 4,700
Spokane Taholah	578, 921 20, 810	4 521, 832 800	33,554 800				6,850 725	16,685 18,485
Tulalip Yakima	210, 954 115, 324	27,304	6,600			8,610	1,995 8,005	175.065

^{1 1917} report.

3 Includes forest reserve.

4 Increase last year due to supplies on hand.

4 Includes value land and old Spokane Sanatorium.

TABLE 36.—Distribution of Government property valuations June 30, 1918—Continued.

States and superintendencies.	Total value.	General adminis- tration.	Health.	Allot- ting.	Irriga- ¹ tion.	Farm- ing.	Fores- try.	School.
Wisconsin	\$1,410,351	\$47, 646	\$26, 227		\$600	\$24,928	\$695,690	\$615, 260
Hayward Keshena. Lac du Flambeau	164, 289 873, 834 91, 464	35,062 805		l 		18,550 4,138	50 695, 290	
Laona La Pointe Oneida Red Cliff	1,075 9,553 72,671 3,670	8,403	350 1,460		600	150 2,090		71, 211
. Tomah	198,795		4,810			2,090		188, 985
Wyoming: Shoshone.	428, 155	154, 153	6, 865	· · · · · · · · · · · · · · · · · · ·	51,778	5,650	18,500	191, 209
State totals	23, 244, 779	. 8, 290, 600	1,532,469	\$29,903	494,701	1, 739, 737	1, 120, 679	15,036,690
Miscellaneous	16, 916, 031	66, 764		8,984	16, 840, 283			
Warehouses Liquor suppres-	1 2, 884	,				•••••		
sion	1 650 1 8, 984	. 1 650		1 8, 984				
Irrigation service (cost) Indian office	16, 840, 283 63, 230				16, 840, 283			
				1	1			

¹ 1917 report.

Table 37.— Value of Indians' individual and tribal property, June 30, 1918.

				II.	Individual.					Triba	je.	
States and superintendendes.	Total individual and tribal property.	Total.	Lands exclusive of timber.	Timber.	Funds in banks and in hands of superintendents.	Homes, furniture, barns, etc.	Wagons, imple- ments, etc.	Stock, poultry and other property.	Total.	Lands exclusive of timber.	Timber and stock.	Balance of funds in treasury.
Total, 1918 1917 1916 1915 1914 1913 1912	867, 067, 704 655, 512, 661 655, 413, 462 655, 424, 639 667, 454, 639 666, 931, 263 648, 699, 092 648, 699, 193	442, 626, 265 433, 223, 913 427, 667, 647 428, 167, 841 426, 436, 776 404, 285, 766 404, 285, 766 80, 634, 110	353, 643, 832 345, 386, 172 388, 073, 640 372, 776, 671 368, 890, 835 348, 504, 283 331, 429, 404	\$11,044,615 10,987,166 11,098,746 11,309,746 11,373,084 11,766,623 11,745,511 9,106,470	\$23,020,264 12,011,127 12,241,185 12,251,557 11,251,557 11,200,525 10,735,723	\$13, 620, 799 \$ 12, 600, 371 12, 6040, 371 10, 827, 552 9, 924, 486 8, 537, 204 7, 796, 806	55,993,848 4,860,244 23,716,903 22,815,071 2,815,071 2,221,306	\$35,302,877 81,277,413 31,420,226 12,776,492 12,266,506 19,633,329	223, 461, 439 223, 226, 748 223, 720, 815 220, 145, 585 232, 583, 487 244, 424, 467 242, 200, 144	\$106,800,281 102,724,836 105,815,540 101,805,570 111,386,816 120,701,799 127,942,410	15.0 (10.0 cm) (42, 675, 101 44, 133, 330 44, 281, 948 42, 196, 680 47, 082, 280 46, 668, 701 44, 519, 534 41, 548, 880
Arizona	54, 994, 028	11,982,767	3,317,077	4,000	3,214	382, 350	383,395	7,892,731	43,011,261	31, 228, 768	11, 508, 771	188,722
Camp Verde. Colorado River Fort Apache.	6,781, 9,780,7	. <u> </u>	606, 500		2,572	25,500 1,700	1,7,8,-		5, 039, 768 9, 269, 676	4, 984, 754 6, 214, 883	89	55,014 13,300
Kaibab	<u>-</u> 평화	12° 8				(4,6) (8,8)	. 31 85 85 8		122, 781 811, 346	811,340	18, 496	1,206
Navajo 6 Pima 6 Pima 6 Salt River	4,73,00,-1 8,72,82,83 8,72,82,83	& 8898 8989	1,386,900		642	. 4, 8, E. 9000	888 888 888		12,146,859 8,887,722 498,781	2,4,8, 2,6,8, 2,6,8,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	7,500,000	508
Ban Carlos Ban Xavier Truxton Canon Western Navajo	6,4,1 1,24,1 124,20 184,20 185	1. 2.7.4.55 3.5.24.55 3.5.5.4.55	667, 237	4,000		8,8,4,0, 8,000,00	6,3,4,1, 8,8,8,8	167,750 19,196 1	3,509,115 2,783,514 1,099,466 1,835,832	2,648,340 2,783,514 1,901,780 1,985,640		76,996 41,711 192
California	10,812,937	6,016,440	3,000,278	1,915,250	91, 143	210,923	104,405	596, 441	4, 796, 497	3,822,741	1960,961	22,805
Bishop Gampo Digger For Yuns Greenville Hoop Valley Mahit	354, 677 107, 904 17, 965 229, 346 1, 740, 354 2, 583, 403 2, 583,	314,677 38,466 39,466 12,550 204,274 1,676,320 8,89,360 1,99,390 1,99,390 1,99,390 1,99,390	230, 200 1,000 1,804,000 1,604,000 1,18,000 118,000	40, 250 40, 000 1, 800, 000	2,574 7,740	0,000,000,000,000,000,000,000,000,000,	8,4, 8,8,9,9,8,4, 8,8,8,8,9,9,8,4,	86. 80. 80. 82. 82. 82. 82. 83. 84. 84. 84. 84. 84. 84. 84. 85. 84. 84. 84. 84. 84. 84. 84. 84. 84. 84	2, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	40,000 6,236 6,236 7,000 17,000 2,740,608 201,018	25, 200 4, 000 1, 000	2, 024 2, 034 10, 010

Round Valley Boboba Tule River	944,670 558,880 880,136	922, 205 130, 274 55, 997	686, 568	75,000	7,364	3,8 ,0,	2,8,7,000 000 000 000 000 000 000 000 000 0	101, 58 26, 041 160, 160	######################################	61.850 97,60 90,60	13, 806 27, 156 66, 000	9,580
Colorado	2, 638, 880	624, 265	226,920	4,000	194, 166	15,500	11,000	172,679	2,014,615	512,050	12,600	1,480,965
Southern Ute	1,075,037	367,867 256,398	226, 920	4,000	132,898	8,8, 000,	11,000	61,179	1,307,446	612,060	13,600	707, 170
Florida: Seminole	123, 721	11,975						11,975	111,746	111, 746		
Idaho	15, 242, 018	12, 348, 490	10, 519, 615	214,640	318,957	368,000	206,000	721, 278	2, 808, 528	1, 314, 341	1, 425, 046	154, 141
Coeur d'Alene. Fort Hall. Fort Lepwal.	2, 833, 727 6, 256, 900 7, 151, 301	2, 628, 061 8, 923, 737 5, 796, 692	1, 950, 980 8, 410, 655 5, 157, 980	179, 640 85, 000	155.741 17.954 145,262	61.88.08. 00.08.00. 00.000.	2,22 20,00 0,00 0,00 0,00 0,00 0,00 0,0	136, 700 389, 128 215, 450	205, 666 1, 333, 163 1, 354, 699	59, 202 761, 614 463, 526	23, 556, 386 245, 386	122, 803 15, 164 16, 174
Iows: See and Fox	729, 126	49, 696			20,296	16, 200	3,000	10, 200	679, 430	333, 388	1,500	344, 542
Kansas	4, 270, 364	4,061,321	2, 870, 476		217,241	275,684	122,000	565,920	219, 043			219,043
Haskell Institute. Kickspoo	7, 234 2, 278, 517 1, 984, 613	2, 182, 007 1, 862, 080	1, 535, 290 1, 335, 186		7. 234 105. 640 104, 367	140, 384 135, 300	92,000 30,000	308, 693	96, 510 122, 533			96, 510 122, 533
Michigan: Mackinac	446, 632	444, 036	165, 556	81,962	27, 563	118,000	38,000	27,965	2, 596			2, 596
Minnesota	18, 047, 596	9, 449, 806	5, 847, 441	208, 500	900, 122	1, 645, 550	202,000	556, 193	8, 597, 790	1,283,894	900, 198	6, 323, 698
Fond du Lac. Grand Portage 4. Leech Lake. Nett Lake. Physicone (Birch Cooley). Red Lake. White Earth.	1, 041, 543 2, 060, 143 1, 079, 919 64, 995 9, 876, 647	408.048 90,778 1,153,491 777,978 63,452 883,618 6,483,441	305, 500 500, 000 507, 381 625, 133 45, 500 4, 313, 927	128,000 128,000 13,000 15,000	12, 450 14, 650 14, 650 17, 751 14, 650	45,000 6,750 7,800 1,000 1,075,000	9, 7, 4, 89 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9	36 36 36 36 36 36 36 36 36 36 36 36 36 3	25.000 1.000 25.000 1.000 1.000 25.000 1.000 1.000 25.000 1.000 1.000 25.000 1.00	38, 000 1, 208, 644 87, 250	10,000 955,588 *24,600	543, 465 181, 165 906, 651 301, 941 1, 543 1, 057, 547 3, 331, 386
Montans	55, 462, 651	27, 503, 804	17, 290, 092	756, 465	730, 296	613, 124	514, 460	7, 599, 367	27, 958, 847	18, 616, 725	7, 312, 627	2, 029, 495
Blackfeet Crow Crow Flathead Fort Belknap Fort Beck Rocky Boyk Rocky Boy's Tongue River	11, 123, 491 12, 751, 694 12, 529, 382 7, 101, 621 7, 764, 175 352, 917 8, 839, 371,	7, 878, 899 5, 651, 260 6, 631, 153 7, 208, 901 22, 182 617, 356	3, 025, 100 4, 355, 162 3, 567, 100 6, 342, 730	2,000 675,000 79,465	359, 748 129, 753 19, 258 194, 756 26, 781	160, 174 125, 000 155, 000 74, 550 70, 000	, 8,8,3,4,4,e,4, 86,88,84,8,8	4,603,625 714,350 994,300 422,795 873,400 13,322 477,575	3, 244, 562 7, 100, 434 6, 898, 229 6, 607, 568 830, 735 830, 735 822, 015	2, 136, 187 5, 527, 907 1, 953, 092 6, 289, 739 2, 403, 400	1, 062, 205 898, 452 4, 202, 200 337, 565 842, 205	46, 200 674,075 742, 937 284 555, 274 4, 335 6, 410
 Data incomplete. Includes \$2,505,809 tribal stock. Includes ricrest balances on interest bearing trust funds, and \$3,868,322.66 tribal funds of the Five Civilized Tribes in State and national banks of Oklahoma Includes interest balances on interest bearing trust funds, and \$3,868,322.66 tribal funds of the Five Civilized Tribes in State and national banks of Oklahoma Includes tribal stock. Includes tribal s	bal stock. nces on interest	iterest bearing trust funds, an 1917 report, except last item	it funds, and t last item.	: \$3, 858,322.6	6 tribal funo ? Sund	al funds of the Five C Bundry reservations.	ve Civilized ions.	Tribes in S	tate and na: Includes tir	state and national banks of Oklahoms. Includes timber on Vermillion Lake School	of Oklahomi nillion Leke	s. Behool.

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TABLE 37.—Value of Indians' individual and tribal property, June 30, 1918—Continued.

	Total indi-			H -	Individual.					Triba	lad .	
vidual and tribal property. To	ř	Total.	Lands exclusive of timber.	Timber.	Funds in banks and in hands of superin- tendents.	Homes, furniture, barns, etc.	Wagons, imple- ments, etc.	Stock, poultry and other property.	Total.	Lands exclusive of timber.	Timber and stock.	Balance of funds in treasury.
\$11, 631, 664 \$11,	3 11,	\$11, 219, 656	19, 800, 791		\$160,000	\$739, 500	\$202,000	\$317, 365	. \$412,008	\$246, 567		\$165,441
7, 517, 791 7, 4, 113, 873 3,	ب س	7, 239, 350 3, 980, 306	8, 800, 791		160,000	660,000 79,500	180,000 22,000	239.350 78,015	278, 441 133, 567	225,000 21,567		53, 441 112, 000
3, 041, 952 1,	٠,	1, 501, 008	823,080	\$8,000	9, 601	70,830	275, 565	313, 952	1, 540, 944	1, 478, 445	\$59, 200	3, 299
155, 528 63, 810 161, 700 702, 810 681, 716 1, 126, 353		25, 52 161, 700 161, 700 25, 33 25, 33 25, 33 25, 33 25, 33	128, 680 35, 530 155, 000 342, 475 161, 375	9,000	5,000 241 4,360	9.4, 7.11.1.8 000.8 84.0.1.1.1.8 000.000.000	22, 5, 8, 23, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	11,948 9,040 6,040 18,100 37,515 196,334 85,300	8, 000 8, 240 654, 500 182, 185 663, 019	8, 240 8, 240 639, 500 144, 885 682, 820	15,000 37,300 6,900	13, 299
23, 434, 215 6, 907,	8,	1111	877,833	1,095,000	30,806	714,800	218, 400	3,970,933	16, 526, 444	11, 288, 673	5,044,621	193, 150
2, 143, 478 1, 580, 5, 485, 852 188, 3, 273, 336 1, 397, 4, 986, 825 1, 721, 722, 1, 538, 287 230, 230,	2 1,1,1,	0,8,5,1,0,0 8,2,2,2,0,0 6,00,2,2,0,0 6,00,2,0,0,0 6,00,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	316,833	316, 833 ' 1, 095, 000	22, 160 160	28, 000 85, 000 85, 000 170, 000	1131 88.88 9.000 0000 0000000000000000000000000000	137,060 120,625 836,500 1,272,748 1,604,000	5, 299, 067 1, 875, 836 3, 207, 577 4, 272, 427 1, 308, 297	171, 441 619, 500 1, 876, 500 3, 132, 135 4, 204, 000 1, 286, 797	222,036 4,658,775 73,720 67,600 22,500	169, 773 20, 402 336 1, 722 827
4, 504, 365	*	1,171			1,171	71,980	6, 250	84,575	4,503,194	4, 442, 350	192,000	944
	8	23, 268, 136	19, 537, 850		894,948	697,000	415,000	1,723,338	1,813,810	698, 103	28, 500	1,087,207
4, 285, 369 3, 344, 3 1, 516, 856 1, 514, 2 14, 780, 186 14, 743, 2 4, 499, 526 3, 666, 2	8,-1,4,8,	2228	1, 524, 353 1, 288, 289 13, 566, 208 3, 160, 000		627, 958 29, 629 159, 537 77, 824	295,000 67,000 187,000 148,000	250,000 70,000 50,000 45,000	647,080 56,356 781,517 235,405	940, 998 2, 582 86, 933 833, 297	698, 103	28, 500	242, 895 2, 582 8, 433 207

20, 508, 798	1,896 620,081 2,910,080 2,910,080 102,860 112,260 15,26 85,146 3,782 3,782 8,023 8,023	.314, 102	111, 167 2, 164 53, 844 146, 087	5,044,330	1, 407, 767 104, 696 3, 058 51, 336 647, 446 2, 253, 053 286, 892 377, 102	1,968,081	1,968,061
71,718	71,718	29, 180, 967	22, 709, 000 195, 000 21, 300 5, 265, 667	223,727	67, 100 36, 868 110, 660 19, 200	34,875	34,876
13, 600, 750	1, 895 80, 0381 10, 020 10, 02	4,012,785	2, 169, 000 12, 800 305, 010 1, 525, 975	2,004,139	1, 402, 700 76, 900 526, 439	579, 400	40,000 8,500 530,900
34, 181, 266	22, 586, 683, 584, 584, 584, 584, 584, 584, 584, 584	33, 507, 854	25, 989, 167 2, 164 261, 644 472, 397 6, 782, 483	7, 272, 196	2,867,576 104,696 3,058 1,258,436 2,772,233 290,892 277,102	2, 602, 356	500 12,825 40,000 1,700 5,465 8,500 5,800 8,000 7735,801 2,535,836 5,845,890,000 Liberty lean bonds. 512,219,000 Liberty lean bonds. 5748,000 Liberty lean bonds.
2,003,526	82,116 28,55 28,739 82,856 82,856 71,286 71,286 183,589 173,177 171,286 183,589 173,177 174 174 174 174 174 174 174 174 174	1,366,894	921,770 75,000 19,972 81,132	4, 365, 253	626, 632 328, 887 10, 200 388, 573 11, 423, 317 1, 159, 304 156, 777	754,091	500 12,825 40 8,000 5,465 8 8,000 725,801 2,533 14,580,000 Liberty loan bonds 17,2319,000 Liberty loan bonds 17,80,000 Liberty loan bonds. 5 748,000 Liberty loan bonds.
1,280,963	8.5.5.8.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	161,000	8,3, 8,8 8,8 8,8 8,8 8,8	822,000	8,3,7,3,8,3,8,3, 9,8,9,9,9,9,9,9,9,9,9,9,9,9,9,9,9,9,9,	60,200	500 1,700 88,000 88,580,000 88,748,000 88,580,000 88,580,000
4,000,061	97,000 187,701 107,701 1,485,000 188,000 188,000 188,000 189,0	370,000	133,000 115,000 105,000 17,000	1,456,375	25,000 25,000 25,000 25,000 25,000 28,500 84,376	98,200	1,500 2,600 89,100 Includes Includes Includes
14, 197, 804	60,769 204,651 204,651 1,383,851 1,383,056 11,382,056 138,923 138,933	256,030	28,52 117,03 12,03 12,03 13,03 10,03	1,983,559	1,721 143,587 44,179 690 74,288 173,783 173,783 212,656 686,242	270,510	270, 510
72,000	72,000	2, 404, 900	540,000 1,800,000 19,000 8,400 87,500	20,000	9,000 20,000		
199, 287, 001	1,004,240 15,780,002 13,192,380 13,912,380 1,531,531 2,683,604 2,813,400 1,739,600 3,832,600 1,176,864	7, 506, 140	1, 270, 880 521, 981 374, 500 4, 639, 850 697, 929	42, 638, 696	6, 864, 854 2, 521, 261, 261 11, 662, 770 9, 240, 779 6, 144, 180 3, 824, 952	2, 120, 048	2, 120, 048
220, 841, 426	1, 339, 139 168, 579, 386 168, 577, 341 19, 778, 114 1, 044, 886 1, 285, 282 2, 182, 282 2, 182, 283 2, 184, 539 4, 346, 539 1, 381, 189	12,063,964	2, 954, 891 2, 673, 696 439, 421 5, 103, 354 893, 109	51, 324, 883	8,064,973 3,063,827 121,890 2,149,611 14,462,970 11,339,046 6,855,988 5,264,857	3, 208, 049	14, 825 9, 765 3, 273, 459 lons. t last item.
258, 022, 601	1, 361, 054 6, 043, 467 191, 747, 881 19, 244, 015 1, 744, 283 3, 742, 283 1, 646, 789 1, 646, 789 2, 114, 809 4, 336, 401 2, 238, 238	45, 571, 818	28, 943, 558 2, 675, 862 701, 065 5, 575, 751 7, 675, 582	58, 597, 079	1, 721 10, 922, 549 3, 168, 528 124, 948 2, 313, 816 15, 746, 408 13, 611, 279 7, 155, 880 5, 541, 959	5, 900, 405	54,825 14,82 18,265 9,76 18,277,315 3,273,458 Tribal timber. Tribal timber. 1917 report except last item.
Oklahoma	Cartonment Chayams and Arapaho Rive Civilized Tribes. Klowa Osage Otoe Pawnee Pawnee Ponca. Sac and Fox Segar Sences	Oregon	Klamath * Roseburg Bilett Umatilis Warm Springs	South Dakota	Canton Asylum Chayame River Crow Creek Fandreau Lower Brule Pine Ridge Roeebud Stoebud Stoebud	Utah	:::

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TABLE 37.—Value of Indians' individual and tribal property, June 30, 1918—Continued.

				, "	Individual.					Triba	æl.	
States and superintendencies.	Total individual and tribal property.	Total.	Lands exclusive of timber.	Timber.	Funds in banks and in hands of superin- tendents.	Homes, furniture, barns, etc.	Wagons, imple- ments, etc.	Stock, poultry and other property.	Total.	Lands exclusive of timber.	Timber and stock.	Balance of funds in treasury.
Washington	\$47,000,209	\$30, 653, 198	\$23, 638, 593	14,068,601	\$882, 607	\$512,012	\$659, 935	\$891,450	\$16, 347, 011	\$4, 491, 915	\$11, 500, 290	\$08, 806
Colville. Cushman	12,956,	11,000,000		5 ,8,	316,589	3	7,190	24,742		:	1,00,	80,017 104,651
Neah Bay. Spokane Taholah	3,086,864 9,478,868	1, 543, 741 1, 641, 889	350,020	1, 23, 24, 26 2, 23, 24, 26, 26, 26, 26, 26, 26, 26, 26, 26, 26	30, 212 2, 117	2,8,4 8,6,3	+,8,5 5,50 6,00 6,00 6,00 6,00 6,00 6,00 6,	2,23,80, 170,80, 170,80,	1, 543, 015 7, 837, 888	1, 512, 857 1, 512, 845	1, 002, 500 6, 319, 908	28, 670 5, 086
Tulalip. Yakima	4,5 5,68 6,08	11,389,		 85.32 66.32,	246, 048	ĘE	8 (E)	131, 780		-		
Wisconsin	19, 315, 544	7, 435, 564	3, 249, 230	152, 297	1, 733, 852	1, 228, 700	193, 285	880, 191	11,879,980	3, 535, 262	6,096,882	2, 247, 846
Grand Rapids	365,	825	86,000	000 00	(5)		25,000 27,000	74,389		-	3,400	103, 086
Keshena Las du Flambeau	1,72	3,5			18,93 10,93		88	. 24 . 25 . 25 . 25	11, 063, 922 270, 922	3,085,340 102,089	5,980,911 23,836	1, 967, 671 153, 517
Laons La Pointe Oneida.	2, 847, 573 1, 897, 718	2,672,398 1,897,371	800, 767 1, 312, 158	14,000	1, 352, 456 6, 533	8 8 8 8 8 8 8 8 8 8	4,4,8 5,8 5,8 6,8 6,8 6,8 6,8 6,8 6,8 6,8 6,8 6,8 6	106,675 158,680 158,080	175, 176	ğ ,23	88, 735	3,225
Wyoming: Shoshone	4, 240, 98	1, 1, 188	86 86 87 88	60,000	41, 276		4,500	14, 573	2, 808, 230	1, 610, 249	1, 176, 584	21,397
		1 101	1 1917 report.					8 No data.				

Table 38.—Employees in Indian school and agency service, based on salary list in effect June 30, 1918.

		Total.	Scho	ol service.	Agen	cy service.	
Position.	Num- ber.	Salary.	Num- ber.	Salary.	Num- ber.	Salary.	Range of salaries. ¹
Total	5,313	\$3,609,184	2,758	\$1,967,777	2, 555	\$1,741,407	
Supervision of Indians: Superintendents and assistants Cashiers and storekeepers. Cierks. Struographers. Principals and assistants. Disciplinarians. Judges. Police, privates. Constables.	142 2 620 40 95 65 86 548	253, 525 3, 850 613, 640 39, 000 99, 155 47, 080 7, 104 161, 588	139 1 119 1 95 65	246, 375 1, 000 101, 460 720 99, 155 47, 080	86 547	2,850 512,180 38,280 7,104 161,348	\$1,000 to \$2,750 1,000 to 2,850 600 to 1,080 720 to 1,400 600 to 1,200 240 to 420
Education: Academic— Teachers. Kindergartners. Industrial teachers. Mechanical—		395, 592 13, 640 40, 180	572 21 52	395,007 13,640 39,640	3 1 1	2, 520 585 540	600 to 900 600 to 750 600 to 1,000
General mechanics. Engineers and assistants. Blacksmiths and carpenters Shee and harness makers. Others. Domestic science—	26 24	35,720 103,260 113,300 16,340 19,790	14 99 66 22 13	12,040 77,340 49,060 13,760 10,890	32 32 89 4 11	23,680 25,920 64,240 2,580 8,900	360 to 1,200 600 to 1,000 480 to 900 540 to 780 300 to 1,000
Teachers. Housekeepers. Matrous. Assistant matrous. Cooks and bakers. Seamstresses and laundresses.	193 116	13,560 67,220 72,655 76,785 102,140	21 188 111 152 178	13,500 64,620 70,015 76,785 89,860	5 5 25	2,600 2,640 12,280 5,780	540 to 840 300 to 600 540 to 840 300 to 660 300 to 600
Health: 2 Physicians Nurses		189, 404 68, 030	65 61	118, 955 52, 080 41, 390	130 40	137,324 26,640	360 to 1,800 600 to 780
Matrons— Field	87 4	56, 010 2, 460	4 8	2,220 1,740	83 1	53,790 720	300 to 900 600 to 780
and stockmen. Farmers and assistants. Line riders. Others. Forestry:	68 321 27 72	62,776 253,797 16,260 41,330	8 60 15	8,400 46,930 11,340	60 261 27 57	54,376 206,867 16,260 29,990	715 to 1,300 600 to 1,100 360 to 720 450 to 1,000
Deputy supervisors Forest guards Sawyers Others Missellaneous:	7 73 7 31	10,600 58,910 6,180 32,660			7 73 7 31	10,600 58,910 6,180 32,660	1,300 to 1,600 450 to 900 500 to 1,200 440 to 1,100
Assistants Laborers Teamsters Interpreters Painters	179 407 22 53 8	56, 600 204, 935 9, 840 29, 820 6, 240	147 198 3	44,820 103,655 1,140 6,240	32 209 19 53	11,780 101,280 8,700 29,820	120 to 600 300 to 720 360 to 600 240 to 600 680 to 840
Others	77	80,953	11	6,620	66	74, 333	120 to 1,000

Occasionally extremely high and low salaries are not embraced herein.
 Does not include 139 positions at \$69,380, carried under various activities.
 Includes 74 contract physicians, whose time is only partly employed in the Indian Service.

TABLE 39.—Miscellaneous field employees, June 30, 1918.

	т	otal.	Chief	officer.	Oti	hers.
Designation.	Num- ber.	Salary.	Num- ber.	Salary.	Num- ber.	Salary.
Field investigating and supervising force.						
Total	121	\$195,060	15	\$31,400	106	\$163,660
Inspection	7 13	17,000 25,800	1	3,500	6 13	13,50
Special supervisorsLiquor	24	32, 190	1 i	2,000	23	25, 80 30, 19
Construction	8 24	14,500 33,420		•••••	8 24	14,50 33,42
Bchools	8	17,600	1	8,000	7	14,60
Industries: Farming	1	3,600	i	3,600		
Employment Live stock	3	3,700 (1)	1	2,000	2	1,70
Live stock	1	(1)	1	(ı)	•••••	•••••
Field supervising officers. Menominee	10	18,250	1	3,000	9 11	15, 25
Special agents	12	12,990 5,320	1 1	1,600 2,000	3	11,38 3,32
Special agents Commissioner to negotiate with Seminole Indians	1	2,000	1	2,000		
Attorney for Pueblo Indians Traveling auditors	1 4	1,500 7,200	1 4	1,500 7,200	•••••	• • • • • • • • • • • • • • • • • • • •
Field irrigation service.	200	256, 655	14	28,000	186	228, 65
Chief inspector.	1	4,000		4,000		
Superintendents of irrigation	8	18,500	i	2,500	7	16,00
Arizona	5	4,500	2	2,700	3	1,80
Pima. Salt River.	1	3,300 1,200	1	1,500 1,200	3	1,80
California: Miscellaneous work	83	45, 860	2	4,000	31	41,86
Idaho: Fort Hall	13	13,060	1	1,600	12	11,46
Montana	26	28, 525	2	3,300	24	25, 22
Billings. Crow Fort Belknap. Tongue River.	1 10 14 1	1,600 12,450 14,175 300	1 1	1,800 1,500	1 9 13 1	1,60 10,65 12,67
New Mexico: Albuquerque	-	20,780	1	2,000	14	18,78
Utah	29	37, 150	2	3,800	27	33,35
Salt Lake Uintah.	11 18	15,400 21,750	1 1	1,800 2,000	10 17	13, 60 19, 75
Washington: Yakima	53	66,680	1	2, 100	52	64,5
Wyoming: Shoshone	. 17	17,600	1	2,000	16	15,60
Field allotment service. Total	24	22,925	4	3,780	20	19, 14
Special allotting agent	1	(1)	1	(1)		
Arizona	. 3	2,820			3	2,8
LeuppPima	1 2	720 2,100			1 2	2, 10
Montana	. 4	2,665	1	540	3	2, 1
Blackfeet		765	1	540	1	2
CrowFort Peck	1	500 1,400			1 1	1,4
North Dakota: Turtle Mountain	. 1	900			. 1	9
Oregon: Umatilla	. 8	2,860			. 3	2,8
South Dakota	. 9	10,500	1	2, 160	8	8,3
Pine Ridge Rosebud	. 7	2,100 8,400		2, 160	6	2, 10 6, 2
Wisconsin: La Pointe	. 3	3, 180	1 1	1,080	2	3,1

1 \$10 a day when actually employed.

TABLE 39 .- Miscellaneous field employees, June 30, 1918-Continued.

,	т	otal.	Chie	officer.	Ot	hers.
Designation.	Num- ber.	Salary.	Num- ber.	Salary.	Num- ber.	Salary.
Heirskip work.	55	\$60, 260	18	\$32,600	37	\$27,660
Probate work.	20	50,000	20	50,000		
Warehouses.	35	36, 290	8	6,200	32	30,090
Chicago San Francisco 8t. Louis	21 6 8	21,650 6,620 8,020	1 1 1	2,200 2,000 2,000	20 5 7	19,450 4,620 6,020

TABLE 40.—Recapitulation of all Indian Service employees.

Designation.	Number.	Salaries.
Total	6,028	\$4,587,074
School Agency Field investigating and supervising force. Irrigation service. Allotment service. Heirship work Probate work Warehouses. Indian Office employees, exclusive of commissioner and assistant commissioner.	1 2, 758 1 2, 555 121 200 24 55 20 35 260	1, 867, 777 1, 741, 407 195, 060 256, 655 22, 925 60, 260 50, 000 36, 290 336, 700

1 School and agency includes 2,379 Indians earning \$1,003,316.

TABLE 41.—Commissioner's account for fiscal year ended June 30, 1918.

[Checks, drafts, and other instruments of exchange, drawn to the order of the commissioner, are received in the office as deposits with bids for tribal leasing privileges, guaranties for right of way across Indian lands, and for various other purposes. For such receipts the commissioner renders monthly accounts as required by sec. 3622, Rev. Stats.]

On hand July 1, 1917		\$154, 446, 66
Received:		V, 00
July 1917	20, 284, 26	
July, 1917	44 141 25	
September, 1917.		
October, 1917		•
November, 1917.		
December, 1917		
January, 1918		
February, 1918		
March, 1918		
April, 1918		
May, 1918		
June, 1918	6, 961. 21	
		190, 456. 90
Total on hand and received	•••••	344, 903. 56
Disbursed and deposited:	•	344, 908. 56
Disbursed and deposited: July, 1917.	\$251.43	344, 908. 56
Disbursed and deposited: July, 1917.	\$251.43	344, 908. 56
Disbursed and deposited: July, 1917. August, 1917.	\$251. 43 20, 810. 51	344, 908. 56
Disbursed and deposited: July, 1917. August, 1917 September, 1917.	\$251.43 20,810.51 1,396.06	344, 908. 56
Disbursed and deposited: July, 1917. August, 1917 September, 1917. October, 1917.	\$251.43 20,810.51 1,396.06 317.04	344, 903. 56
Disbursed and deposited: July, 1917. August, 1917. Beptember, 1917. October, 1917. November, 1917	\$251. 43 20, 810. 51 1, 396. 06 317. 04 182, 090. 50	344, 903. 56
Disbursed and deposited: July, 1917. August, 1917. September, 1917. October, 1917. November, 1917. December, 1917.	\$251. 43 20, 810. 51 1, 396. 06 317. 04 182, 090. 50 26, 890. 25	344, 903. 56
Disbursed and deposited: July, 1917. August, 1917. September, 1917. October, 1917. November, 1917. December, 1917. January, 1918.	\$251. 43 20, 810. 51 1, 396. 06 317. 04 182, 090. 50 26, 890. 25 25, 001. 00	344, 903. 56
Disbursed and deposited: July, 1917. August, 1917. September, 1917. October, 1917. November, 1917 December, 1917 January, 1918. February, 1918.	\$251. 43 20, 810. 51 1, 396. 06 317. 04 182, 090. 50 26, 890. 25 25, 001. 00 15, 611. 88	344,903.56
Disbursed and deposited: July, 1917. August, 1917 September, 1917 October, 1917 November, 1917 December, 1917 January, 1918 February, 1918 March, 1918	\$251. 43 20, 810. 51 1, 396. 06 317. 04 182, 090. 50 26, 890. 25 25, 001. 00 15, 611. 83 5, 950. 72	344,903.56
Disbursed and deposited: July, 1917. August, 1917. September, 1917. October, 1917. November, 1917. December, 1917. January, 1918. February, 1918. April, 1918. April, 1918.	\$251. 43 20, 810. 51 1, 396. 06 317. 04 182, 090. 50 26, 890. 25 25, 001. 00 15, 611. 83 5, 960. 72 5, 974. 94	344,903.56
Disbursed and deposited: July, 1917. August, 1917. September, 1917. October, 1917. November, 1917. December, 1917. January, 1918. February, 1918. March, 1918. April, 1918. May, 1918.	\$251. 43 20, 810. 51 1, 396. 06 317. 04 182, 090. 50 26, 890. 25 25, 001. 00 15, 611. 83 5, 950. 75 5, 974. 94 32, 059. 83	344,903.56
Disbursed and deposited: July, 1917. August, 1917. September, 1917. October, 1917. November, 1917. December, 1917. January, 1918. February, 1918. April, 1918. April, 1918.	\$251. 43 20, 810. 51 1, 396. 06 317. 04 182, 090. 50 26, 890. 25 25, 001. 00 15, 611. 83 5, 950. 75 5, 974. 94 32, 059. 83	344,903.56

Balance on hand June 30, 1918.....

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21,670.28

Table 42.—Receipts and disbursements on account of sales of Indian lands from July 1, 1917, to June 30, 1918.

On hand	June 30, 1913.	\$2,112,869.32	211, 606. 90	5, 799, 960. 48	1, 185, 912. 35	20,788.08 214,254.94	438, 820, 70 92, 603, 14	4,814,962,40	128, 262, 16	9,433.56	7,261.83	481, 921. 19	128, 834, 52 2, 436, 152. 07	64, 532, 38 422, 135, 87	2, 451, 48 240, 547, 78 1, 820, 33	132, 666. 92 24, 584. 86	36, 056, 33 155, 423, 11	26, 808, 91 28, 612, 18 0, 010, 88
Disbursed.		\$321,618.53	290.63	187, 992, 14	53, 426.85	102, 119, 53	420, 325, 13 14, 975, 22	194, 529, 97	29.62	26, 697, 27		104, 749. 45	6,301.78	1,600.13	6, 297. 21 6, 297. 21	126, 591. 71 345, 200. 69	00 07	96. 66
Received.		\$72,082.76	19, 092, 20	382, 406. 39	283, 505. 55	221,080.13	298, 656, 35	9,981.37	10, 952. 29	35, 236.61	30.08	224, 773.89	1, 708.87	\$301,514.45	977. 83 109, 270. 34 5, 182. 26	12,896.83	28, 599. 66	1, 172, 39 328, 53 274, 10
On hand	. 7mk 1, 1917.	\$2,363,455.09	192, 806. 83	5, 605, 547. 23	965, 833. 66	190,316.48	79, 690, 17	4,999,511.00	117, 339. 51	440, 016. Us	7,231.83	361, 896. 75	2, 680, 629. 37	39, 378. 30	1, 540. 89 257, 331. 76 2, 985. 28	356, 322, 59	12,456.67	26, 631, 52 28, 370, 30 8, 771, 48
Statutes at Large.	Page.	213	383	\$12 \$	\$ 5	8 €	88	200	484	188	149	\$	88	352	r	288	388	8205 84205 84205
Sta st I	Vol.	82	583	888	88	ಪಜ	88	222	888	888	ន្តន	18	នន	æ	888	883	888	1222
Dates of acts	or tresties.	Mar. 27, 1908 June 5, 1906	June 17, 1910	Feb. 26, 1896	May 29, 1908	June 21, 1906 June 1, 1910	May 30, 1908 June 30, 1913	May 19, 1872 May 19, 1872 June 16, 1880	May 27, 1910	Oct. 1,1890	July 3, 1882	May 29, 1908	Mar. 3, 1885 Mar. 4, 1913	Mar. 22, 1906 Apr. 27, 1904	ង្គន្លដ	ន្តផ្តុ	, w. E	May 29, 1908 Feb. 28, 1800 June 21, 1906
Title of fund.		Apache, Klows, and Comanche 4 per cent fund	Cheyenne and Arapahoe in Oklahoma 3 per cent fund	Chippewas in Minnesota fund 1.	Cheyenne River Reservation 3 per cent fund	Coeut d'Alene 3 per cent fund Fort Berthold Reservation 3 per cent fund	Fort Peck Reservation 4 per cent fund. Klowa Agency Hospital 4 per cent fund.	Ossge fund	Pine Ridge Reservation 3 per cent fund	Round Valley general fund	Shoshone and Bannock fund	Standing Rock Reservation 3 per cent fund	Umatilla general fund Ute, Confederated Bands of, 4 per cent fund	Frocedus of Contraction, Westh. Corville Reservation, Westh. Crow ceded lands, Montans.	Jevis Lade Reservation, N. Dak. Flathead Reservation, Mont. Irrigable land. Yuma Reservation, Cal	Ked Lake Heservation, Minn. Rosebud Reservation, S. Dak.	Slietz Reservation, Oreg.	Spokane Posservation, Wash Burplus Posservation and Kansse Burplus Poyaling school lands

TABLE 43.—Liabilities of the United States to Indian tribes under treaty stipulations, June 30, 1918.

Annual amount needed to meet stipulations.	8 8 9 99889 8 9 9 9 9 9 9 9 9 9 9 9 9 9	1,000
Statutes.	Vol. 7, p. 99	Vol. 19, p. 256; vol. 38, p. 603. Vol. 27, p. 136
Number of installments yet unappropriated, explanations, etc.	Art. 2, treaty of Nov. 16, 1805, \$5,000 Vol. 7, p. 90. Art. 13, treaty of Oct. 18, 1820, \$600. Vol. 11, p. 614. Art. 2, treaty of Jan. 20, 1825, \$6,000. Vol. 7, pp. 211. Art. 6, treaty of Jan. 20, 1825, \$6,000. Vol. 7, pp. 211. Art. 10, dayeement of Mar. 2, 1827, rati- Vol. 25, pp. 210. Art. 10, dayeement of Mar. 2, 1887, rati- Vol. 25, pp. 210. Art. 10, dayeement of Mar. 3, 1891. Vol. 16, p. 620. Treaty of Mar. 1, 1868, art. 10	Estimated, act Feb. 28, 1877, Mar. 2, 1880, and Aug. 1, 1914. Agreement of Mar. 18, 1887, ratified July 13, 1862.
Description of annuities, etc.	Permanent annuities Provisions for smiths, etc. Employees For scholosed. For scholos, during the pleasure of the President Physician, carpenter, miller, engineer, farmer blacksmith, etc. For support of scholos. Amulity in cash and physician, per agreement of May 10, 1868. Amulity in cash and physician, per agreement of May 10, 1868. Amulity in cash and physician, per agreement of May 10, 1868. Amulity in cash and physician, per agreement of May 10, 1868. For all and gussmith, 2 strikers and apprentices, 2 teachers, etc. For education, smith, farmer, and smith shop during the pleasure of the President. President. For education, smith, farmer, and smith shop during the pleasure of the President, carpenter, teacher, engineer, farmer, and blacksmith. Physician, carpenter, teacher, engineer, farmer, and blacksmith. Furnament afmulities in clothing, etc. Physician, 5 teachers, carpenter, miller, engineer, farmer, and blacksmith.	Purchase of rations, etc., as per art. 5, agreement of Sept. 26, 1876, and for support and maintenance of day and industrial schools among the Sioux Indians, including the erection and repairs of school buildings. Fay of blacksmith and carpenter
Name of tribes.	Choctaw Do Cœur d'Alene Chippewa of the Mississippi Grow Navajo Northern Cheyenne and Arapaho. Pawnee Do Do Do Do Quapaw Beneca of New York Bhoshori and Bannock: Bhoshori and Bannock: Bhoshori of New York Six Nations, of New York Six Nations, of New York Bioxx of different tribes, including Santee Sioux of Nersaka. Do	Брокапе

និ	8, 520 30, 000	725, 360
Vol. 15, p. 621	Vol. 15, p. 622	
Estimated, ert. 9, treaty of Mar. 2, 1868	Estimated, art. 15, treaty of Mar. 2, 1968 Art. 12, treaty of Mar. 2, 1868	
For fron and steel and necessary tools for blacksmith shop Estimated, art. 9, treaty of Mar. 2, 1888 Vol. 15, p. 621	2 csrpenters, 2 millers, 2 farmers, 2 blacksmiths, and 2 teachers	
Winnuche, Mosche, Capote, Winnuche, Yamps, Grand, River, and Untah Bands of	Do	Total

TABLE 44.—Pro rata shares of tribal trust funds settled during fiscal year ended June 30, 1918.

States and superintendencies	Tribes.	Indians paid.	A verage pro rata share.	Amount paid.
Total	••••••	4, 061		\$1,277,984.90
Idaho: Coeur d'Alene	Coeur d'Alene	282	343.56	96, 885. 18
Iowa: Sac and Fox	Sac and Fox	6	1,079.57	6, 477. 42
Kansas	••••••	21		8, 596. 04
KickapooPotawatomi	KickapooPotawatomi	12 9	577.37 185.26	6, 928. 44 1, 667. 60
Montana: Flathead	Confederated Flathead	1,002	110. 43	110, 655. 54
Nebraska: Santee	Ponca	9	65.68	591.12
New York: New York	Tonawanda (Sen-ca)	12	154. 75	1, 857.00
North Dakota: Standing Rock	Sioux	233	149.17	34, 757. 10
Oklahoma	••••••	1, 199		789, 717. 81
Crow Creek	Cheyenne and Arapahodo	25 198 198 198 383 38 9 33 37 2 55 17 1,200 37 129 53 8 615 434 239 85 5	301. 24 301. 24 315. 00 709. 72 3, 819. 76 673. 66 455. 25 47. 83 987. 34 	7, 531, 00 3, 313, 64 133, 878, 10 140, 525, 55 196, 145, 37 258, 011, 78 17, 299, 68 430, 47 32, 582, 22 14, 490, 84 10, 783, 36 3, 713, 48 211, 274, 82 4, 117, 36 82, 010, 68 8, 799, 66 1, 110, 48 24, 375, 13 53, 108, 58 69, 871, 65 17, 892, 50
Wisconsin: Keshena		25	107.04	2, 676.0

¹⁵ per cent.

Table 45.—Tribal funds of the Five Civilized Tribes in State and National banks of Oklahoma.\(^1\)

	Ond	leposit June 30, 1	918.	Inter	est.
Tribes.	Total.	Principal.	Interest.	Paid in the United States Treasury.	Total paid and due.
Total	\$3,858,322.66	\$3,669,847.75	· \$188, 974. 91	\$1,088,759.78	\$1,277,784.69
Choctaw	2, 137, 619. 96 766, 211. 89	2, 037, 120. 26 730, 635. 95	100, 499. 70 35, 575. 94	628, 215. 69 207, 021. 57 31, 892. 28	728, 715. 39 242, 597. 51 31, 892. 28
CreekSeminole	929, 496. 04 24, 994. 77	878, 041. 54 23, 550. 00	51, 454. 50 1, 444. 77	214, 477. 56 7, 152. 68	265, 932 06 8, 597. 45

 $^{^1}$ The deposits are made under the act of Mar. 3, 1911 (36 Stat. L., 1058–1070), in 223 banks. The rates of interest are from 4 to $5\frac{1}{2}$ per cent.

²⁴ per cen .

³ per cent.

Table 46.—Analysis of disbursement of funds of Five Civilized Tribes, fiscal year ended June 30, 1918.

	Choctaw.	Chickasaw.	Cherokee.	Creek.	Seminole.	Total.
Salaries and expenses of tribal						
school employees Expenses of per capita and	\$1,841.23	\$1,796.13	\$407.19	\$407.17	\$857. 18	\$5, 308. 9 0
equalization payments	10, 559. 58	4, 288. 40		8, 038, 73	1,795.09	19, 681. 80
Insurance and repairs to tribal schools and hospitals Expenses account sale of tri-	731.41	243.84				975. 25
bal lands and collection of revenue	23, 403. 47	7,801.26		252. 61		31, 457. 34
sale	1,512.96	504.37			• • • • • • • • • • • • • • • • • • • •	2,017.33
Tribal officers and expenses Tribal attorneys and ex-	5, 726. 10	8, 486. 61	75.00	7,543.89	• • • • • • • • • • • • • • • • • • • •	21, 831. 60
penses	· · · · · · · · · · · · · · · · · · ·	6, 056. 92		10, 668. 99		16, 725. 91
Payments in lieu of allot- ments.	4,661.43	300.00	4,046.02	14,080.66	226.91	23, 315. 02
Per capita payments Payments, funds transferred	2, 221, 407. 15	605, 619. 15	2, 437. 61		162, 839. 90	2, 992, 303. 84
to individual accounts	184, 538. 46	9, 648. 46	286. 53	13, 176. 27	7,908.92	215, 558. 64
Legal expenses account of town lot suits				201.35		201. 35
Total	2, 454, 381. 79	644, 745. 14	7, 252. 35	49, 369. 67	173, 628. 00	3, 329, 376. 95

TABLE 47.—Volume of business in Indian warehouses, fiscal year ended June 30, 1918.

	:	Freight shipm	ents.	Exp	ress shipm	ents.
Warehouses.	Number.	Weight.	Value.	Number.	Weight.	Value.
Chicago	134, 469 53, 437 29, 579	Pounds. 1 15,060,802 7,375,064 1 3,093,450	\$1, 107, 810. 03 414, 894. 84 415, 437. 45	436 37 24	Pounds. 10,411 989 1,054	\$6, 524. 67 358. 30 471. 17
Total	217, 485	25, 529, 316	1, 938, 142. 32	497	12, 454	7,354.14
:		Packages mai	led.	Percenta totals o	ge of inc ver previo	crease of us year.
	Number.	Weight.	Value.	Number.	Weight.	Value.
Chicago	3,496 193 2,402	Pounds. 17, 293 672 5, 978	\$12, 674. 85 532. 51 5, 976. 55	Per cent. 2 17.9 1.7 2 20.4	Per cent. 2 68.0 24.9 291.6	Per cent. 2 17.6 42.6 26.0
Total	6, 091	23, 943	19, 183. 91	* 14. 3	2 71. 6	2 1. 5

 $^{^{\}rm 1}$ Exclusive of coal which was not handled through the warehouses. $^{\rm 2}$ Decrease.

1002 0030.

 Total number of shipments (packages)
 224, 073

 Total weight
 25, 565, 713

 Total value
 \$1, 984, 680. 37

TABLE 48.—Expense at warehouses, fiscal year ended June 30, 1918.

		71.21	Employees		Cost of	maintens	nce.
Warehouses.	Rent.	Light and fuel.	and in- spection of supplies.1	Miscella- neous.	Total.	Per cent.2	Per cent, 1917.
Chicago	\$4,800.00 2,400.00 1,600.00	\$384.69 13.50 309.10	\$17,665.61 6,971.50 12,319.24	\$3,974.73 1,174.70 1,024.54	\$26, 825. 03 10, 559. 70 15, 452. 88	2.38 2.54 3.66	2, 14 3, 81 4, 55
Total	9,000.00	707.29	36, 956. 35	6, 173. 97	52, 837. 61 55, 666. 20	2.68 2.74	2.74
Saving over 1918					2, 828. 59		

¹ Includes cost of letting annual contracts for supplies.

8 Shows the relation of the total maintenance cost to the value of goods handled as set out in the preceding table.

SUPPLIES FOR THE INDIAN SERVICE.

FISCAL YEAR 1919.

The following tables show the contracts awarded under advertisements of April 15, 17, 19, 22, 24, 26, 27, 29, May 7, 9, 11, 13, 15, 18, 20, and June 5, 10, 15, 17, 19, 21, 22, for supplies for the Indian Service for the fiscal year ending June 30, 1919.

Classification of supplies.

Agricultural implements	•
Automobile supplies	
Bacon and dry salt meats	
Beef, net, etc	
Blankets	•
Boots and shoes	
Carbide	
Clothing, etc	
Chinaware, etc	
Coal	
Desks	
Dry goods	
Enameled ware, etc	
Electrical supplies	
Fire extinguishers	
Furniture and woodenware	
Gasoline.	
Glass, window	•
Gloves and suspenders	•
Groceries	•
Hardware	•
Harness, leather, and shoe findings, etc	•
Hats and caps	•
Hose goods	•
Moregone	•
Kerosene	•
Kindergarten supplies	•
Lamps, etc	•
Medical supplies	•
Miscellaneous supplies	-
Mutton	•
Notions	•
Oils, paints, etc	•
Oleomargarine	-
Piece goods, etc	•
Pipe fittings	•
Plumber's and steam and gas fitter's tools, fittings, and supplies	•
Pork, fresh	
Schoolbooks, etc	
Stoves, pipe, and hollow ware	
Tin and stamped ware	•
Underwear and hosiery	
Uniforms, etc	
Wagons and wagon materials	

NUMBERS AND NAMES OF CONTRACTORS.

1. Albrecht, Gustave A.

2. Aloe Company, A. S.

3. Aluminum Goods Manufacturing Co.

American Book Co.
 American Steel & Wire Co.
 American Varnish Co., The.

7. Apple Hat Co.

8. Armour & Co.

9. Baker, Hamilton & Pacific Co.

Barker Bros.

11. Barlow Co., The J. T. 12. Barnes Co., The A. S.

13. Bauer & Black.14. Beckley-Cardy Co.15. Bell Oil Co.

Berry Bros.
 Betz Co., Frank S.
 Beulah Coal Mining Co.

19. Block & Co. of New York (Inc.).

20. Book Supply Co., The.
21. Boston Belting Corporation.
22. Boyd & Schuster.
23. Boylan, Christopher C.
24. Brandenstein & Co., M. J.

25. Brecht Co., The.26. Brothers, Howard R.27. Brown, Charles & Sons.

28. Bucks Stove and Range Co., The.

 Burley & Tyrrell Co.
 Byrne, Roy T.
 California Paint Co.
 Canfield Stove & Refrigerator Co.
 Capen Belting & Rubber Co. 34. Capewell Horse Nail Co., The.

35. Caradine Harvest Hat Co.

36. Carpenter Paper Co.

37. Carson, Pirie, Scott & Co.
371. Carstens Packing Co.
38. Carter White Lead Co.
39. Castle, Timothy P.

40. Caxton School Supply Co.

41. Century Co., The 42. Channon Emery Stove Co.

421. Channon Co., H.

43. Charter Oak Stove & Range Co.

44. Chase Bag Co. 45. Chicago Varnish Co. 46. Chicago White Lead & Oil Co., The.

47. Clark & Co. (Inc.), A. L.

48. Clark Leather Co., James. 49. Cleveland Metal Products Co., The.

50. Cochrane Packing Co., The. 51. Columbia Mills (Inc.), The.

52. Columbia Oil Co.

53. Conrades Manufacturing Co.

54. Cook, Alexander J. 55. Cowen, Mark.

56. Crandall Packing Co.

57. Crane Co.

58. Crescent Feather Co.

59. Cross, Curtis B.60. Crucible Steel Co. of America.

61. Cudahy Packing Co., The.

62. Dalziel-Moller Co.

63. Damm & Sons Brush Manufactur-

ing Co., John. 64. Davis & Sons, W.

65. Devoe & Reynolds (Inc.).
66. Dietz, John P.
67. Dolliver & Bro.
68. Dugan, Herbert F.
69. Duke, MacMahon & Co.
70. Eastern Manufacturers' Co. (Inc.).
71. Element Edward Trees

71. Ebbert, Edward F. 72. Ellis, Abraham M.

73. Empire Rubber & Tire Co.
 74. Endicott Johnson & Co.
 75. Fairbanks, Morse & Co.
 76. Fairbank Co., The N. K.

77. Farr, David.

78. Field & Co., Marshall. 79. Fisk Rubber Co. of New York,

The.

 80. Flanagan Co., A.
 81. Forbes Tea & Coffee Co., James H.
 82. Ford Co., The J. B.
 83. Ford Pulley & Hardware Co.
 84. Foster Bros. Manufacturing Co., The.

85. Fox Furnace Co., The.

86. Frank & Co., S. H.

87. Frye & Co. 88. Fuller & Co., W. P. 89. Fulton Bag & Cotton Mills.

90. Garlock Packing Co., The. 91. Garner, John T. 92. Gaunt & Co., Alfred C.

93. Gibson, Hutton. 94. Gilliland Laboratories (Inc.).

95. Gimbel Bros. (Inc.).

96. Ginn & Co. 97. Glens Falls Pharmaceutical Co. (Inc.).

98. Goldberger Manufacturing Co. 99. Goodrich Rubber Co., The B. F.

100. Goodyear Rubber Co.

101. Goodyear Tire & Rubber Co., The.

102. Gould, George H. 103. Graf, Geo. B.

104. GrahamManufacturing Co., James.

105. Granite City Soap Co. (Inc.). 106. Graton & Knight Manufacturing Co., The. 107. Great American Chemical Prod-

ucts Co.

108. Greenberg & Co., Max.

109. Grether Fire Equipment Co. 110. Gudebrod Bros. Silk Co.

111. Gutman Bros.
112. Haas Bros.
113. Haase & Sons Fish Co., A. C. L.
114. Handlan-Buck Manufacturing Co.

115. Hainsch & Sons, R.

116. Hardy & Co., F. A. 117. Haymon, Krupp & Co. 118. Heath & Co., D. C.

119. Herman, Joseph M. 120. Heywood Bros. & Wakefield Co. 121. Hibbard, Spencer, Bartlett & Co.

122. Hirsch & Sons Mercantile Co., Cal.

123. Hodges, Francis M.
124. Holbrook, Merrill & Stetson.
124. Hollister Wilson Laboratories, 1241. Hollister The.

125. Homann, Henry J.

126. Honeywell, Loyd.

127. Hopkins, Temp H.
128. Horlick's Malted Milk Co.
129. Houghton Mifflin Co.
130. Howard, R. H.
131. Howe Rubber Co. (Inc.).

132. Hubbard, Albert C. 133. Hudson & Boas.

134. Huke Rattan & Willowware Manufacturing Co., William. 135. Illinois Glass Co.

136. Imelli, Samuel A.137. Independent Baking Co.138. Inland White Lead Co.

139. Johns, Hugh M. 1391. Johnson, Albert T.

Johnson, Andrew.
 Judge & Dolph Drug Co.

142. Kasper, Peter J. 143. Klaine Co., The F. A. 144. Kling Bros. & Co. (Inc.). 145. Kullman, Salz & Co. (Inc.). 146. Lammert Furniture Co.

147. Landers, Frary & Clark.

148. Laumann, Adam H. W.

149. Laporte, J. K.

150. Lindemann & Hoverson Co., A. J.

151. Lippincott Co., J. B. 152. Long Syrup Co., H. C.

153. Longman, Green & Co.154. Luchetti, A.155. Lunsford & Sutherland.

156. Lyster Chemical Co.

157. McCarthy, Charles F.
158. McDonald Manufacturing Co., A. Y.

159. MacMillan Co., The.

160. Madison Trading Co. (Inc.). 161. Maendler Bros.

162. Mallinckrodt Chemical Works. 163. Manhattan Rubber Manufacturing

Co., The. 164. Mason, Ehrman & Co.

165. Matthews & Co., George T. 166. May Department Stores Co.

167. Meyer Bros. Drug. Co. 168. Merrill Co., Charles E. 169. Millers Falls Co.

170. Milliken & Co., John T. 171. Miller, George L. 172. Milton Bradley Co.

173. Missouri Lamp & Manufacturing

174. Monarch Knitting Co., The. 175. Monsanto Chemical Works. 176. Montgomery, Ward & Co. (Inc.). 177. Mueller Manufacturing Co., The.

178. Mulford Co., H. K. 179. National Lead Co.

180. Neustadter Bros. 181. Newark Button Co.

182. Newbauer & Co., J. H.

183. Norwick Pharmacal Co., The.

184. Nystrom, Albert J. 185. Oakley Paint Manufacturing Co. 186. Oldham New York Saw Works

(Inc.), The.

187. One Minute Manufacturing Co.

188. Orange-Judd Co. 189. Ottenheimer Bros.

190. Pacific Coast Syrup Co.
191. Pacific Commercial Co.
1914. Palace Meat Market.
192. Palmer Co., The A. N.
193. Paraffine Companies (Inc.), The.

194. Parke, Davis & Co.

195. Patent Vulcanite Roofing Co.

196. Pendry, Harrison E.

197. Peninsular Stove Co., The.
198. Peoria Cordage Co.
199. Pilot Knitting Mills.
200. Pipestone Oil Co.
201. Pioneer Rubber Shoe Co.

202. Pioneer Soap Co. 203. Pittsburgh Plate Glass Co.

204. Powell Co., The William.

205. Puhl-Webb Co. 206. Pyrene Manufacturing Co.

207. Quaker Oats Co., The. 208. Rand McNally & Co. 209. Rapp & Co., Leland S. 210. Rasmussen, Albert.

211. Reed & Co., Samuel I. 212. Reichert & Co. (Inc.), F.

213. Reid, Murdoch & Co. 214. Reid Bros. (Inc.).

215. Rex Tablet Co.
216. Richter, Conrad.
217. Riverside Broom & Mop Co.
218. Russell Manufacturing Co., The. 219. St. Louis Glass & Queensware Co.

220. St. Louis Screw Co.

221. Savoy Drug & Chemical Co. 222. Scarritt Comstock Furniture Cor-

poration.

223. Schultz & Hirsch Co.

224. Schuster, Boyd V.

225. Scruggs, Vandervoort & Barney
Dry Goods Co.

226. Seidel Manufacturing Co.

227. Shapleigh Hardware Co. 228. Sherwin-Williams Co., The. 229. Shores Mueller Co.

230. Silver, Burdette & Co.

231. Singer Sewing Machine Co., The.
232. Simmons Co., The.
233. Skoog, Nils J.
234. Smith, Charles J.

235. South Bend Chilled Plow Co.

236. Spotswood-Helfer Co. 237. Squibb Sons, E. R.

238. Standard Crayon Manufacturing Co.

239. Standard Oil Co. (California). 240. Standard Oil Co. (Indiana).

241. Standard Sanitary Manufacturing Co.

242. Standard School Supply Co. 243. Stechert Co. (Inc.), F. C.

244. Steiger & Co., E.

245. Stork & Co. (Inc.), Charles T. 246. Strong Harral Co. (Inc.), The George. 247. Stover Manufacturing & Engineering Co. 248. Studebaker Corporation of America, The. 249. Sunset Broom & Brush Co. 250. Superior Manufacturing & Supply Co. 251. Susskind, Joseph N. 252. Sutro Bros. Braid Co. 253. Swift & Co.
254. Tay Co., George H.
255. Taylor Instrument Companies.
256. Texas Co., The.

257. Thompson, Oscar T. 258. Thomson & Co.

258. Thomson & Co.
259. Tribolet Packing Co.
260. Tuthill Spring Co.
261. Tyler, Frank H.
262. Union Carbide Sales Co.
263. Union Meat Co.
264. Union Oil Co. of California.
265. United States Steel Products Co.

266. University Publishing Co.

267. Upton, Abraham L.

267. Upton, Abraham L.
268. Utah Fuel Co.
269. Vogelsang, Howard E.
270. Ward & Co.
271. Waterloo Saddlery Co., The.
272. Webb Publishing Co.
273. Weber & Co., Charles F.
274. Wenzel Tent & Duck Co., H.
275. Westermann, William H.
276. Wheeler Varnish Works

276. Westermann, Wilham H.
276. Wheeler Varnish Works.
277. Whetton, Arthur J.
278. Whittaker-Glessner Co.
279. White Sewing Machine Co.
280. Wisconsin Pearl Button Co.
281. Witenberg Manufacturing Co.
282. Witte & Sons, John H.
283. Wood Marring & Pearling Machine Machine Co.

283. Wood Mowing & Reaping Machine

Co., Walter A.

284. Worms & Loeb. 285. Yates & Co. 286. Yates, Charles M., jr. 287. Young Bros. (Inc.). 288. Zellerbach Paper Co.

CLASS I.—GROCERIES AND PROVISIONS.

[M—quantity for entire service included in Chicago award.]

	renb-M	ntity for en	111e 90L0	M-quantity for entire service included in Unicago award.	ara.j			
	Bids oper	ned in Chic	ago, III.,	Bids opened in Chicago, Ill., Apr. 19, 1918.	Bids open	ed in San	Francisc	Bids opened in San Francisco June 14, 1918,
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Alispice, absolutely pure, ground In 4-pound tins In 1-pound tins	100 pounds	\$0.23 . 188	88	San Francisco, Cal. do.	51 pounds1.	\$0.25 .20	112	San Francisco. Do
Bacon: Extra short clears, average weight 30 to 40 Extra chort clears, square cut, 50 to 60	117,280 pounds	. 2962	90 90	Chleago, Kansas City, Omaha.	K			
Short elears, 50 to 60 pounds. Clear bellies, 18 to 20 pounds. Clear bellies, 30 to 35 pounds.	14,350 pounds 9,270 pounds 5,700 pounds	3082	90 90 90	dodo.	KKK			
Example 1 Section 1 Sectio	2,600 pounds 39,190 pounds 39,270 pounds 23,270 pounds	248	90 90 90	dodo.	M M M Sal rounds			
ins ins	12,120 pounds 1	. 158 149 . 0685	ន្តន្ត	Chicago or St. Louisdo.	5,020 pounds 1	. 1965 . 1485 . 091	8 88	Chicago. Do. San Francisco.
Bath briok Beswax Beswax Beswax Candles 6's	164 dozen. 126 pounds. 868 dozen. 496 pounds.	. 55 . 48 . 1136	ន្ទន្ទន្ទន	New York. Chicago or St. Louis Chicago or St. Louis	No award 366 dozen * 295 pounds *	. 2176	221 282 283	St. Louis. San Francison.
Casta (Immunu), ground In g-pound tins Chees, American Chees, American	7,240 pounds	32.25	5222	San Francisco. do. Chicago.	M. M. Marinda I	33.85	122	iể c
	130 pounds	25.00	88	San Francisco.	42 pounds	88	22	. 6 6 6 6
In 4-pound tins. In 1-pound tins. In 5-pound tins. Codies, green, for the entire service.		246 227 215 124 124	112 112 112 887	San Francisco. do. St. Louis. Seattle, Portland, or San	7 A	275 276 27	112	: 6 6 6 AAAA
1 Only. 3 Will accept increase of 25 per cent prov	86,138 pounds . 122 142 Chicago	. 122 d at the ti	142 me princ	Francisco. Chicago ipal award is made.	* Per set.	20 sets.	급립	In 12-pound boxes.

CLASS I.-GROCERIES AND PROVISIONS-Continued.

	Bids ope	ned in Chic	заgo, III.,	Bids opened in Chicago, Ill., Apr. 19, 1918.	Bids open	ed in San	Francisc	Bids opened in San Francisco June 14, 1918.
. Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit priœ.	No. of con- tractor.	Point of delivery.
Cornstarch Gream tartar In 4-pound tins In 1-pound tins	5, 590 pounds. 197 pounds.	\$0.07 .91 .85	142 213 213	Chicago Chicago	2,577 pounds 50 pounds.	\$0.0675 .99	205	Chicago. San Francisco Do.
Fish: Canned salmon Salted salmon—	1,391 dozen cans 1	2. 25	112	San Francisco	285 dozen cans 1	2.25	112	D 0
In one-half barrels, 100 pounds. In barrels, 200 pounds. Cod, dried, boneless strips. Mackerel, pickled.	1,500 pounds ² 5,600 pounds ² 1,455 pounds 1,025 pounds	81.8	113	St. Louis.	1,000 pounds 8 3,000 pounds 8 M.			
Lemon lquid Lemon paste Vanilla lquid Vanilla pere	707 bottles! No award	22.	205	Chicago	328 No award 409 No award	. 32 824	191	О 0
Ginger, ground In 4-pound tins In 1-pound tins	264 pounds.	3398 3398	261 261 8	San Francisco. Chicago, Omaha, or	147 1.	34	112	ទី ទីទី
Hard bread. Hors, fresh, treesed, in 4 and 4 nound nackson	~	.329	268 137	<u>2673</u> 6 3	(*) 18,350 pounds • No bid			
• ; ;		. 282 . 285 . 285 . 285 . 285	00 00 00 00	Chicago Kansas City Chicago Kansas City	€			
Lard compound: In 5-pound cans.	(2,340 pounds 1 (2,155 pounds 1 (43,010 pounds 1 (19,280 pounds	2.2.2. 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	88 × × 88	North Portland, Oreg Chicago or Kansas City do North Portland, Oreg	222			
Lye, concentrated Matches, salety.	1,165 dozen cans. 523 gross. (125 barrels	795 85 55.00	122 162 8	Chicago or St. Louis. Portland. Chicago, Omaha, or	472 dozen ¹ 204 gross	. 957 . 95	133	Do. Portland.
Mees pork	113 barrels		3	City. Bloux City	€			

Milk, evaporated: In 6-ounce cans. In 16-ounce cans.	682 dozen cans	1.275	213	Chicagodo	138 dogen 1	1.149	139	San Francisco. Do.
Mustard, ground: In p-pound tins Nutmeg whole Pepper, black, ground:	230 pounds	38.	282	San Franciscodo	86 pounds 1	.3925 .3625 .45	112	0 000
In -pound tins In -pound tins Balains, seedlees Ralsins, seeded	11,335 pounds	. 1075 1075 1075	1829	San Francisco. Portland.	552 pounds 5,220 pounds 3,479 pounds	.45 .41 .0.1075	25 2 25 2 25 2 25 2 25 2 25 2 25 2 25 2	Do. Portland. Do.
Salt, coarse	127,500 pounds	00737 11.015	162	San Franciscodo.	26,550 pounds	.0075 0155	25	San Francisco. Do.
	12,380 gallons 1 4,788 gallons 11,265 gallons (30,330 pounds (22,5670 pounds	. 4878 . 5875 . 5825 . 0966 . 088	191 152 152 202 76	do do do do Chicago	3,170 gallons6,200 gallons	19. 565 19. 565 19. 5525	152 152 152	° 6 6 DD D
Soap, chips: In 50-pound boxes. In 100-pound boxes. In barrels.	21,350 pounds 4,900 pounds 122,230 pounds		355	dodo				
Softs, blearbonates In -pound boxes Starch, laundry, in 30-pound cases Stager, 'for the entire service'	3,777 pounds 14,470 pounds ¹ No award	36. 38. 38.	205	:	1,292 pounds	25. 25.	88	Chicago. Do.
Taploca, pearl. Tea. Vinear	2,805 pounds 9,075 pounds	<u> </u>	1821	San Francisco	No award	88	্ব	San Francisco.
In new barrels. In new 5-gallon kegs. In new 16-gallon kegs. In new 16-gallon kegs. In new 30-gallon kegs.	No award				200 galions 1-16	*. *. *. *. *. 88 88 88 88 88 88	82 83 83 83 83 83 83 83 83 83 83 83 83 83	00000
In barrels	24,730 pounds	8.8 8.8	88	Chicago	11,800 pounds ¹	. 028 2820	139	Do.
10nly. No sward. No sward. Quantity for entire service included in Chicago sward. 13.20 pounds under 25 per cent eastern contract; 5,090 pounds under readvertisement at Chicago and awarded at 11 cents.	.g.च	1.4White Cloud." None to be bought.—Food Ac Per I counce package. In In bales of tan 10-pound bags. In Packages will be made of elic with 6 steel hoops, parafilmenished on the outside.	tht.—Fo	1.4White Cloud." None to be bought.—Food Administration. Per Is-course package. In In bales of tan 10-pound bags. Packages will be made of either spruce or fir, hooped with 6 steel hoops, paraffined on the inside and varnished on the outside.	H H H H	ommercia a. Subjecting. Is in good September	ugh the l contain to 25 pt condition conditions conditions of the	¹⁸ Sugar purchased through the US. Food Administra- tion. ¹⁹ Packed in commercial containers. Packing in small boxes extra. Subject to 25 per cent increase at time of award only. ¹⁰ Food barrels in good condition. ¹⁰ August and September delivery. ¹¹ In 50-pound, net, boxes.

DRY GOODS, ETC.

[Bids opened in Chicago Apr. 22, 1918.]

Articles.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Blankets, single, all wool: For single beds, indigo blue, 54 by 84	1			
inches.	1	l	į	i
For double beds, 68 by 84 inches				
For double beds, 68 by 84 inches	1,200, 60 by 90, 4 pounds each.	\$6.45	95	Milwaukee.
For single beds, white, 54 by 84 inches For double beds, 68 by 84 inches	(600, 64 by 84, 4	5.50	71	Chicago.
Blankets, single, wool and cotton mixed: For single beds, indigo blue, 54 by 84	pounds each. 509, 60 by 90, 4	6.75	71	Do.
inches.	pounds each.		' '	100
For double beds, 68 by 84 inches		ŀ		•
For single beds, scarlet, 54 by 84 inches For double beds, 68 by 84 inches		ŀ		1
For single beds, white, 54 by 84 inches For double beds, 68 by 84 inches		l		
Blankets, single, all cotton:	,		ļ	
Blankets, single, all cotton: Tan, 68 by 84 inches, for double beds	387 1	4.65	258	Esmond, R. L.
Gray Tan, 54 by 84 inches, for single beds	761 1	4.65 4.07	258 258	Do.3 Do.3
Gray	523 1	4.07	258	Do.1
Counterpanes, white: For single beds	No award	[
For double beds	do		•••••	
Bedticking	No bid			
Calico: Indigo	do			
indigo. Shirting. Oil red. Crash, linen, washed, without colored border. Burlap, tan color. Denim, art, green Diaper cloth. Duck (Indian Head) approximately 48 by 48, 36 inches, bleached, shrunk finish.	do			
Oli red	90.648 vands 1	. 139	78	Chicago.
Burlap, tan color	No award			CALLONGO,
Denim, art, green	5 862 varde 1	228	78	Do.
Duck (Indian Head) approximately 48 by 48,	No award			Du.
Flormal rad twilled	do	ľ	1	
Gingham	66,862 yards 1	. 275	71	Do.
Hickory shirting	No award			
Gingham Hickory shirting Linen, ludia. Linen, table, 62-inch Mosquito net or bar	do. 66,862 yards ¹ No award 2,221 yards ¹ No award	. 265	78	Do.
Mosquito net or bar	410 pieces 1	.90	71	Do.
Outing flannel: Dark-colored patterns Light-colored patterns Do	16.281 vards 1	.325	71	Do.
Light-colored patterns	28,000 yards 1	. 245	71	Do.
Do Penema cloth gray Minch	16,281 yards ¹	. 25	71	Do.
Panama cloth, gray, 54-inch	do			
Serge dress: Dark blue, 54 inches	No award	1		
Indigo dve. 80 by 80 count	(8)			
Percale, white and black, 80 by 80 count	(8)			
Plaid, glass, toweling, linen, about 18 to 20 inches wide.	No award			
Seersucker, blue: Crinkled	-			
Uncrinkled	71,060 yards ¹	. 245	71	Do.
Sheeting, brown, heavy, standard:			l ''	_
Sheeting, brown, heavy, standard: 4/4 (48 by 48), weight about 2.85	No award			
6/4	34,960 yards	.367	258	Danville, Va.
7/4	23,340 yards 6,350 yards	1 .400	258 258	Do. ³
9/4. Sheeting, bleached, muslin, 4/4 (84 by 80)	No bid	l	200	
Sheeting, bleached, muslin, 4/4 (84 by 80) Silesia, black and slate, 36 inches wide	2,694 yards 1 No bid.	. 29	133	New York.
White cross bar, for aprons Oilcloth, table, 5/4: White		1	·····	
White	5,969 yards 1	.242	78	Chicago.
Veined	526 yards 1	. 242	78	Do.
colors:	~ ~~	ـــا		N
	f1,221 yards 1	. 289	51	New York or Chicago.

Only.
 Freight allowed to Chicago or St. Louis (not including war tax).
 Added to searsucker, uncrinkled.

DRY GOODS, ETC.—Continued.

Articles.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Officiath, table, 5/4—Continued.				
Officioth, table, 5/4—Continued. 38 inches wide	1.956 yards 1	80. 294	78	Chicago,
42 inches wide	1,655 yards 1		78	Do.
45 inches wide		.3822	78	Do.
48 inches wide			78	Do.
54 inches wide			78	Do.
63 inches wide	9 yards 1	.7448	78	Do.
72 inches wide	do	.833	78	Do.
Translucent, for window shades	(3)			
Window shade rollers, with fixtures, complete:	· · · ·			
36 inches wide	1.531 1	.10	51	New York or Chicago
38 inches wide		.10	51	Do.
42 inches wide	4421	.10	51	Do.
45 inches wide	84 1	.14	51	Do.
48 inches wide	155 1	.14	51	Do.
54 inches wide	41	l.26	51	Do.
72 inches wide	41	1.00	51	D3.
Scarfs, silk, mull, about 2 yards long	836 1	. 709	71	Chicago.
Fascinators, wool, assorted colors 3	No bid			1
Cotton hate	do			
lags, United States, of the following hoists (width of flag):				
NOTE.—The fly (length of flag) runs 1.9 feet for each foot of hoist.	!			
1.9 feet for each foot of hoist.	!	1		
2.9 feet	No award 4			
3.52 feet	do.4			
5 feet	do.4			
8.94 feet	do.4			
Handkerchiefs, white, good grade of cotton:	l			i _
Men's	1,717 dozen	.68_		<u> D</u> o.
Ladies'	1,565 dozen 1	. 425	78	Do.
Mittens, woolen, assorted sizes:				n .
Boys'	184 dozen 1	2.70	37	Do.
Girls'	122 dozen 1	1.60	78	Do.
Misses' and women's	124 dozen 1	2. 25	78	Do.
Kufflers, woolen, knit	No bid			
Shawls, dark-colored, plaid:	l			D4 014-
Single, about 8/4	[651	4, 125	11	Dayton, Ohio.
	1571	4. 25	11	Do.
Double, about 16/4	No bid.			
kirts, balmoral, wool, gray only	2,248			(This are
kirts, knit, wool, gray only	2,245	.875	174	Chicago.
weaters, wool and cotton mixed:	1			
Children's and misses', sizes 26 to 34 inches, bust measure—		l		
Cardinal		1		
Navy blue	1,000 1	6 1.72	199	Philadelphia.
Gray	1,113	2.125	11	Dayton, Ohio
Ladies' sizes, 34 to 44 inches, bust measure—	p ·		1	
Cardinal	1,160	1,975	11	Do.
Navy blue	560	1.975	lii	Do.
Grav.	772	1.975	ii	Do.

UNDERWEAR AND HOSIERY. (Bids opened in Chicago, Apr. 28, 1918.)

[2 0]				
Corset waists, misses' and women's, sizes 20 to 30.	556	\$ 0. 85	92	New York.
Undershirts, men's, balbriggan, light, for summer wear, assorted sizes, 34 to 46 inches chest measure.	3,365	. 55	11	Dayton, Ohio.
Drawers, men's, balbriggan, light, for summer wear, assorted sizes, 30 to 44 inches waist measure.	3,707 pairs	. 55	11	Do.
Undershirts, men's, aleeveless, check nain- sook, for summer wear, assorted sizes, 30 to 44 inches chest measure.	315	.41	117	El Paso, Tex.
Drawers, men's, knee, check nainsook, for summer wear, assorted sizes, 30 to 44 inches waist measure.	50 pairs	.41	117	Do.

¹ Only.
2 Added to opaque.
3 Added to opaque.
4 Colors—cream, white, sky, copenhagen; ½ of quantity, white or cream.
4 To be purchased through General Supply Committee, Washington, D. C., at its contract prices.
5 Added to skirts, knit, wool.
6 Gray only.

UNDERWEAR AND HOSIERY-Continued.

			,	,	,
Artici	es.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Undershirts, men's, for v	vinter wear, assorted	1,328	\$0.75	117	El Paso, Tex.
Drawers, men's, for wi	nter wear, assorted	1,509 pairs	.75	117	Do.
sizes, 30 to 44 inches Undershirts, men's, ex- climates, assorted siz- chest measure.	waist measure. tra heavy, for cold es, 34 to 46 inches	382 1	1.00	71	Chicago.
Drawers, men's, extra mates, assorted sizes, a measure.		408 pairs :	1.00	71	Do.
Undershirts, boys', ba summer wear, assorted 16 years.	Ibriggan, light, for sizes, ages from 6 to	1,546 1	.875	71	Do.
Drawers, boys', balbriggs wear, assorted sizes, ag	es from 6 to 16 years.	(607 pairs 1	.875 .175 .26	71 11 111	Do. Dayton, Ohio. New York.
Undershirts, boys', for w	rinter wear, assorted	870 f	*. 35	11	Dayton, Ohio.
Drawers, boys', for win sizes, ages from 6 to 16	nter wear, assorted byears.	204 pairs 1	2.35	11	Do.
Undershirts, boys', for w sizes, ages from 6 to 10 Drawers, boys', for w sizes, ages from 6 to 11 Undershirts, boys', extra mates, assorted sizes, a Drawers, boys', extra mates, assorted sizes, a Union suits, men's, asso- inches chest measure:	ges from 6 to 16 years. heavy, for cold cli- ges from 6 to 16 years. exted sizes, 34 to 46	{48 1. {74 1. 106 pairs.	.375 •.345 •.345	71 71 71	Do. Chicago. Do.
Balbriggan, light, for	summer wear	(700 ¹	.675 .725 .715] 11	Dayton, Ohio.
Check nainsook, sleeweer.	eveless, for summer	1,376	.425	'n	Do.
	is, for summer wear i climates	174	. 695 1. 375 1. 675	11 71 11	Do. Chicago. Dayton, Ohio.
years: Balbriggan, light, for Check nainsook, slee wear.	summer wear	3,087 ¹ 428	. 355 . 465	71 11	Chicago. Dayton, Ohio.
	s, for summer wear	236. 4,092. 2,531.	. 895 4. 795 4. 625	11 11 11	Do. Do. Do.
For summer wear For winter wear For winter wear Extra heavy, for cold Union suits, women's, a measure:	1 climates	603 ¹	.375 •.67 •.625	71 71 11	Chicago. Do. Dayton, Ohio.
Low neck, sleeveless	••••••	}7,916	{ . 255 . 27	} 11	Do.
	••••••••••••••••	}2,252 ¹	{ .54 .585	} 71	Chicago.
Sizes 34, 36, 38		5,97 5 1	{ .835 .92	} 71	Do.
Union suits, children's	i climates— (small girls), 6 to 12	}2,186	{ 1.175 1.225	} 11	Dayton, Ohio.
years: Low neck, sleeveless For summer wear, lo	, for summer wear ong sleeves and high	2,575 ¹	.31 \ .50	78 71	Chicago. Do.
For winter wear Extra heavy, for col Union suits, misses', 14 t	d climates o 16 years:	4,500 1,719	4. <i>5</i> 95 4.77	11 11	Dayton, Ohio. Do.
For summer wear, lo	ng sleeves	No bid	4. 265	11	Do.
	i climates		*. 865	11	
¹ Only. ² Age 6, rise \$0.03.	Age 6, rise \$0.035.	 Age 6, rise 9 Age 14, rise 	0.04}. \$0.03.	' Add	ded to extra heavy. 14, rise \$0.04.

UNDERWEAR AND HOSIERY-Continued.

Articles.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Half hose: Men's—				
9, and 10.	No award 1,457 dosen pairs ¹ (1,200 dosen pairs ¹ (152 dosen pairs	\$1.60 1.55 1.70	72 } 72	Philadelphia. Do.
Boys'— Cotton, mixed, heavy, sizes 9 to 10 Cotton, black, tan, or brown, sizes 8, 9 and r0. Hoss:	No award 168 dosen pairs:	1.70	72	Do.
Boys' heavy cotton ribbed, black, sises 7 to 10. Women's, sizes 9 to 11— Heavy, cotton, black, for cold elimates—	1,928 dosen pairs 1	2 2.45	72	Do.
Sizes 104 and 11 Sizes 9, 94, and 10 Cotton, black Misses', sizes 64 to 84— Heavy cotton, black, for cold climates	304 dosen pairs 1. 800 dosen pairs 1. 1,266 dosen pairs 1	2. 10 2. 00 1. 60	72 78 78	Do. Chicago. Do.
Cotton, black, to brown, sizes 64 to 11.	ldo	. 65	72	Philadelphia.

GLOVES AND SUSPENDERS.

[Bids opened in Chicago, Apr. 26, 1918.]

lloves, buck or horsehide: Boys', wool lined	632 pairs 1	\$0.46	78	Chicago.
Mens' wool lined	1.589 nairs 1	. 56	78	Do.
Boys', unlined	260 pairs 1	. 435 . 54	78	Do.
Men's, unlined	706 pairs 1	.54	78	Do.
loves, canvas:				
Boys'	5,440 pairs	. 10 . 13	281	Seattle, Wash.
suspenders:	11'911 benta	.13	78	Chicago.
Boys'	3,904 pairs	. 105	92	New York.
Men's	2,550 pairs	. 16	92	Do.
Belts, leather:	2,000 pens	. 10	-	20.
Boys'	25 dozen	1.78	98	Do.
Boys' Men's	27 dosen	1.86	92	Do.

NOTIONS.

[Bids opened in Chicago Apr. 29, 1918.]

			_	
Braid, dress: Worsted, black—				
	la a.	l		
1-inch	3,404 yards 1	80.001	71	Chicago.
-inch	850 yards	.02₹	252	New York.
-inch	344 yards	.027	252	Do.
White—	orr yarus	.001	202	D0.
	37	1	i :	
}-inch	No award			
-inch	do			
Cardinal, worsted, 1-inch.	No bid			
Brushes:			100000	
	242 dozen 1	2.80	122	Ot Yamia on Ohiasaa
	242 dozen	2.00	120	St. Louis or Chicago.
Tooth—	l	1		
For children	963 dozen 1	.92	160	New York.
For adults	1.133 dosen	1.32	92	Do.
Buttons:	-,			
	l ·	l		
Dress-		مما	I i	~ ·
Vegetable ivory, 24-line	118 gross 1	.96	71	Chicago.
Smoked, pearl, 24-line	831 gross	.39	280	La Crosse, Wis.
Pearl, 24-line	1.185 gross	.98 .39 .23	181	Chicago
Shirt, bone-	, -, 2	'		
18-line	500 gross 1	.28	160	New York.
10-1110	509 gross 1			
20-line	681 gross		160	Do.
Shirt, pearl, 16-line	353 gross	. 18	181	Chicago.
Bone, 28-line	530 gross 1		160	New York.
,,	,			

¹⁰nly.

Size 7, rise \$0.10; every whole and half size.

NOTIONS-Continued.

Articles.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Collars, military, white, rubber or celluloid, sizes 12 to 17 inches.	2,338 1	\$0.098	78	Chicago.
Clamps for fastening rubber or celluloid col- lars to uniform coats. Combs:	No bid	• • • • • • • • • • • • • • • • • • • •		
Coarse, dressing— Girls'. Boys'. Fine aluminum.	1,001 dozen		3 3	Chicago.
Cotton:	579 dozen 761 dozen	.67 .80	8	Do. Do.
Darning, No. 2, 8-ply— Black, fast color. White Gray	1,377 dosen spools	.20	78	Do.
White	164 dozen spools.	.20	78	Do.
Gray	234 dozen spools. 15 dozen spools	.20 .20	78 78	Do. Do.
Spool, best of standard 6-cord, Nos. 20 to 100, white and black, 200 yards to the spool.	7,739 dozen spools.1	.49	ฑ	Do.
Emeries, strawberry	58	.03	78	Do.
Hooks and eyes, brass, white and black, Nos. 2.3. and 4.	498 gross	₹ . 15 17] 11	Dayton, Ohio.
2, 3, and 4. Indelible ink. Laces, shoe:	235 Q028H	.795	78	Chicago.
Leather, 36-inch	6 gross 1 792 gross 1		160 122	New York. St. Louis or Chicago.
Needles: No. 5, Sharp's. No. 6, Sharp's. No. 7, Sharp's. Darning, small size.	538 hundred 554 hundred 403 hundred	. 2475	11	Dayton, Ohio.
No. 7. Sharp's	403 hundred	. 2475 . 2475	11 11	Do. Do.
Darning, small size	25 hundred 1 284 hundred	.40	11 98	Do. New York.
Paper, toilet, round, roll of 1,000 sheets	96,687 rolls	. 65 . 08‡ . 08	36 122	Omaha. St. Louis or Chicago.
M. C.	220 packages 1	. 673	78	Chicago.
8. C. F. 34.	186 packages 1 104 packages 1	. 62 . 57	78 78	Do. Do.
Pins, hat, girls' black heads, steel, about 71 inches.	22 dozen	.15	284	Do.
Pins, hair, wire, crinkled Pins, safety, brass: 1-inch	500 pounds 1	_	71	Do.
1-inch	232 gross 1	. 271 . 35	78 78	Do. Do.
2-inch. Ribbon, all silk, white, black, cardinal, navy	312 gross 1 342 gross 1	. 51	78	Do.
and light blue:	7,799 yards 1	. 101	71	Do.
3-inch 4-inch Scissors, buttonhole. Silk, sewing, No. A, 50-yard spools: Cardinal	7,799 yards ¹ 7,660 yards ¹ 244 pairs	. 135 . 22	78 227	Do. St. Louis.
Cardinal	40 dozen 217 dozen ¹	. 471	110	New York or Chicago.
Tana massuras, medium	217 dozen 1 65 dozen	. 50 . 25	78 284	Chicago. Do,
Tape, white, cotton: inch. inch.	No bid			
inch	do			
Tape, elastic, black: f-inch -inch -inch -inch -inch Closed Closed	do			
inch	362 yards 1	.011	78 218	Do. Do.
inch.	13,065 yards	.054	218	Do.
Onen	48 dozen 1	.095	122 122	St. Louis or Chicago.
Thread, linen, dark blue, and unbleached, 200 yards to the spool: No 30.		}		20.
No 30	No awarddo		ļ	
No. 40.	do			
1 Only 1 In built	iCarda	<u> </u>	<u> </u>	Per necham

¹ Only.

In bulk.

Carded.

'Per package.



HATS AND CAPS. [Bids opened in Chicago Apr. 26, 1918.]

Articles.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Caps: With ear covers, corduroy, winter wear, assorted sizes— Boys'. Men's. Military, woolen, "forestry green," boys' and men's, assorted sizes. Military, woolen, navy blue, boys' and men's, assorted sizes. Military, khaki, olive drab, boys' and men's, assorted sizes. Caps, stocking, for small boys and girls. Hats, military, assorted sizes: Boys', soft felt, tan color. Boys', khaki, olive drab. Men's, soft felt, tan color. Men's, soft felt, tan color. Men's, police, soft felt, tan color. Men's, police, khaki, olive drab. Hats, straw, Mexican, assorted sizes, for boys and girls, farm use.	1.175	80, 43 -43 -11, 65 -1, 47 -1, 07 -875 -87 -61 -1, 02 -62 -63 -4, 18 -2, 20 -1, 19	92 92 92 251 251 78 122 108 122 7 122 108	New Yerk. Do. Do. Do. Do. Chicago. Chicago or St. Louis. New York. Chicago or St. Louis. St. Louis. New York. St. Louis.

CLOTHING, ETC.

[Bids opened in Chicago Apr. 27, 1918.]

CORDUROY CLOTHING FOR SCHOOLS.				
nats, double-breasted, sizes 24% to 28% chest measure.	1,995 3	\$3, 82	55	New York.
nats, single-breasted:				_
Sizes 29 to 35 chest measure	3,683 3	5. 13	55 55	Do.
Sizes 30 to 48 chest measure	3 104 pairs 2	1 78	55	Do. Do.
Misers inno			•	
24; to 27 waist, 20 to 26 inseam	702 pairs *	2.72	55	Do.
27 to 32 waist, 27 to 33 inseam	4,794 pairs 2	8.41	55	Do.
33 to 46 waist, 31 to 34 inseam	2,113 pairs 1	8.89	55	Do.
CORDUROY CLOTHING—POLICE.		1		
to single hospital (or officers	E4.9 .	8 00	55	New York.
ts, single-breasted, for officers ts, single-breasted, for privates users, men's, for officers and privates	202 3	6.70	55	Do.
sers, men's, for officers and privates	441 pairs 2	4.04	55	Do.
coats, men's, for officers and privates	167	2.39	144	Chicago.
FE-DRAB COTTON (EHAEI) CLOTHING— SCHOOL UNIFORMS.				
s, single-breasted:		!		
is, single-breasted: Sizes 24‡ to 28‡ chest measure Sizes 29 to 35 chest measure Sizes 36 to 48 chest measure	252 3	2.53	55	New York.
izes 29 to 35 chest measure	1,108 2	3.59	55	Do.
Sizes 35 to 48 chest measure	402	1.03	144 144	
isers, knee, 26 to 28 waist	423 pairs	1.00	133	Do.
241 to 27 waist. 20 to 26 inseam	88 pairs	1.51	144	Do.
Mt to 27 waist, 20 to 26 inseam	1,213 pairs	1.76	144	
3 to 46 waist, 31 to 34 inseam	595 pairs	2.05	144	Do.
IVE-DRAB COTTON (EHAEI) CLOTHING— POLICE.				
to simple becaused for officers		ا ۵۰۰ ا	RE	New York.
ts, single-breasted, for officersts, single-breasted, for privates	971 \$	2 70	55 55	Do.
sers, men's, for officers and privates	397 pairs	2 14	144	
stcoats, men's, for officers and privates	150	1.77	144	

¹ With genuine leather visor and strap. Will allow 10 cents per cap without braid.
2 Only.
3 Add 1 cent per hat for quantity called for.
4 For girls.
5 For points in Southwest.
6 For boys elsewhere.

CLOTHING, ETC.—Continued.

Articles.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
CLOTHING, BLUE DENIM.				
Overalls, with bib: 24 to 27 waist, 20 to 26 inseam			•••••	
Sizes 29 to 35 chest measure	}do			
WHITE DUCK CLOTHING.				
Coats, sises 28 to 48 chest measure	362 1	\$1.50 .56	209 209	Chicago, Do.
SHIRTS.	l			
Chambray, as per standard sample: Boys', assorted sizes, 11 to 14½ inch neck measure. Men's, assorted sizes, 15 to 18 inch neck measure.	No award		•••••	
Fancy fiannel, regular style	1,148 ¹ 1,896	1. 17	.55	New York.
measure. Men's, assorted sizes, 15 to 18 inch neck	2,1521	1. 19 1. 17	180 55	San Francisco. New York.
measure.	2,200		-	140W 1422.
PIECE GOODS.				
Kersey, all wool, navy blue: Winter weight	<u>l</u>			
Summer weight	No award			
Summer weight Cloth, all wool, "forestry green" shade; Winter weight	40 yards 1	4.75	55	New York.
Dummer weight	20/ VS/OS	4.00	55	Do.
Cloth (khaki), cotton, olive drab	85 yards 1 275 yards 1	. 45 1. 05	55 55	Do. Do.
yard. Denim, indigo blue	No award			
DUCK REEFER COATS.				
Reefer coats, mode duck, sheep-lined, double- breasted, corduroy collar, ciled sleeve lin- ing of good quality, sizes 32 to 48. Beefer coats, as above, except sheep lining omitted and lamb fabric "Nu-back," or other equally satisfactory lining substi- tuted therefor.	331	9. 25	80	Omaha.
TAILOR'S TRIMMINGS.				
Lining, fancy khaki cloth	80 yards 1 1,684 yards 1 130 yards 1	.40 .50	55 55	New York.
Sateen, dark brown Sleeve lining, twilled, 40-inch Drilling, or cornet jeans, slate color, 27-28	130 yards 1 No award	.40	78	Chicago.
	do			
inches. Haircloth, 16-inch	do			
Canvas, tailor's unbleached, 22-inch	200 yards No award	.36	47	New York.
Wigan, black	do		• • • • • •	
Overcoat, black, vegetable ivory-	_		_	_
40-line	1 gross 5 gross	2.00 4.25	47 47	Do. . Do.
Black, vegetable ivory, 30-line Bronze, Indian Service, 36-line	1	. 75 2. 50	47 55	Do. Do.
Vest— Bronze, Indian Service, 24-line Black, vegetable ivory	2 gross1		58 47	Do. Do.
Trousers, metal— Suspender	281 gross		47	Do.
Fly Tissue, rubber, tailor's, 1; and 1; inches wide.	198 gross	.111 .101 1.00	47	Do. Do.
Twist, buttonhole silk, No. 8, 13-ounce spools. Hooks and eyes, trousers	82 ounces	.004	26	Chicago. New York.
mooks and eyes, trousers	13 gross	.27	47	WOM I OLE

BOOTS AND SHOES, ETC. [Bids opened in St. Louis May 13, 1918.]

Articles.	Quantity awarded.	Unit prace.	No. of con- trac- tor.	Point of delivery.
Boots, rubber, sises 5 to 18	No bed			
Boys', sizes 1 to 6	1,399 pairs No bid	\$1.84	201	St. Paul, Minn.
Women's, sises 3 to 8	do	2 10	201	Do.
Overshoes, rubber, storm: Boys', sizes 1 to 6	608 pairs	.68 .52	201 201	Do. Do.
Women's, sizes 3 to 8 Men's, sizes 7 to 13	773 pairs	.67	201 201	Do. Do.
Shoes (for dry climates): Little gents', sizes 9 to 12	568 pairs	1.70 1.94	74 74	St. Louis.
Youths', sizes 12\(\frac{1}{2}\) to 2	6,379 pairs 1	2.14	74 74	Do. Do. Do.
Men's, sises 6 to 13 Children's, sises 5 to 8 Children's, sises 8½ to 11½ Misses', sises 12 to 2	91 pairs 1 727 pairs 1	1. 26 1. 51	74 74	Do. Do.
Women's, sizes 2½ to 8	5,933 pairs 1	1. 82 2. 08	74 74	Do. Do.
Little gents', sizes 9 to 12 Youths', sizes 12t to 2	2.394 pairs 1	1.96	74 74	Do. Do.
Boys', sizes 21 to 51	3,325 pairs 1	2.16 2.57	74 74	Do. Do.
Sizes 5 to 8	614 paire 1	1. 53	<u>74</u>	Do.
Misses', sizes 12 to 2	5.127 Dairs 1	1. 84 2, 10	74 74	Do. Do.
soles: Little gents', sizes 9 to 12		1.40	119	Do.
Youths', sizes 12j to 2		1.50 1.75 1.95	119	Do. Do.
Men's, sixes 6 to 13 Children's, sixes 5 to 8 Children's, sixes 8½ to 11½		1.20	} 119 119	Do. Do.
Misses', sizes 12 to 2		1. 40 1. 55 1. 85	119 119 119	Do. Do. Do.
Oxiords, gray, canvas with leather soles:		1.30	119	Do.
Little gents', sizes 9 to 12		1.45 1.70	119	Do. Do.
Men's, sises 6 to 13. Children's, sises 5 to 8.	480 pairs	1. 85 1. 95 1. 05	} 119 119	Do. Do.
Children's, sizes 8½ to 11½	11 1	1.30 1.45	119 119	Do. Do.
	ľ (1.60	119	Do.

<sup>Only.
Added to shoes (dry climate), children's, sises 5 to 8.
E "Riner" fiber soles are ordered.</sup>

CHINAWARE, ENAMELWARE, LAMPS, ETC.

							į	
	Bids o	pened in C	hicago A	Bids opened in Chicago Apr. 17, 1918.	Bids open	ed in San	Franciso	Bids opened in San Francisco June 21, 1918.
Articles.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit prios.	No. of con- tractor.	Point of delivery.
White enameled ware, as follows: Chambers, with covers. 2-quart. 3-quart. Tethers, washowl, 5-quart. Pitchers, washowl, 5-quart. Pitchers, washowl, 5-quart. The control of the control o	285 dozen 286 dozen 287 dozen 287 dozen 288 dozen 288 dozen 289 dozen 1,738 339 672 1,738 1,738 1,738 1,74 dozen 444 dozen 1,74 dozen 1,74 dozen 1,74 dozen 1,74 dozen 1,74 dozen 1,74 dozen	高	22 22 22 22 22 22 22 22 22 22 22 22 22	Chicago Chicago Ghodo Go	No award. do. 221. 221. No award. 211. No award. Total quantity for enthace purchased under Chased under Chased owards.	9 35	3 3 3	San Francisco, Do,
Crocks, with covers, stoneware, acid fruit glaze lining— 1-gallon. 2-gallon. Cruets, vinegar, glass			8333		94. 2 dozen 1		â	219 St. Louis.

Globes: Lanterns, tubular, safety No. 0. Tubular street lamps No. 3, standard Jars, fruit, complete:	434, dosen 1.	1.10	121 dodo.		28. 1	eg :	Da
I-quart. 2-quart.	No award	-		(108 dozen 1	1.16	38	San Francisco. Do.
For 2-mark	}do{			(135 dozen 1 1691 dozen 1	990	88	8 00
Tops for fruit jars: For 1-quart For 2-quart	49 dozen	61.	775 St. Louis.		€		•
Lamp shades: Metal, for Mammoth hanging lamps, 20			<u>· · · · · · · · · · · · · · · · · · · </u>	No award			
inches. Porcelain, 7-inch, for student's lamps	6.	. 13 	275 St. Louis		8	210	St. Louis.
Bracket, heavy, metal, with cup and thumb-		.77	121 Chicago	701	8.	210	Do
surew for renector, computer, with glass fount, No. 2 Sun burner and chimnes Hall, hangling, extension, complete with 10-	No sward			No sward			
inch frosted globe, No. 2 fount, No. 2 Sun burner and chimney.						-	
Table No. 4, 15. and H. Kadiant, nickel- plated, complete with 10-inch opal dome	147 1	% %	121 Chicago	#	24 28	8	San Francisco.
shade, holder, burner, and chimney. Student's Perfection, No. 1, complete	No sward			No sward			
with opal shade and chimney. Hanging, Mammoth, No. 5 B. and H. Radi-	-						
n metal shade, burner, and	qo			do			
With 14-inch opal dome shade, burner,	10 1	4.55	121 Chicago	do			
Street, tubular, globe No. 8, with burner, complete.	91	1.85	121 dodo	op			
Lamp chimneys: Sun burner—	-						
No. 1. No. 1. Por Dofortion No. 1 strikantis lovers		288	121 do.		283	888	St. Lords. Do.
For No. 96 B. and H. Mammoth lamps For No. 2 B. and H. Mammoth lamps	No award		00	12 dozen 1 57 dozen 1	953	325	San Francisco. St. Louis.
For No. 5 B. and H. Radiant lamps do. 4 B. and H. Radiant lamps	do. 101 dozen	1.40	121 Chicago.		1.76	1	San Francisco.
1 Only.	2 Added to chinaware, semivitreous	semi vitreous.	Purchas	Purchased under Chicago contract—25 per cent clause	tract—25 pe	r cent cl	suse.

CHINA WARE, ENAMELWARE, LAMPS, ETC.—Continued.

	Bids o	pened in (Aicago A	Bids opened in Chicago Apr. 17, 1918.	Bids open	ed in Sen	Franciso	Bids opened in Sen Francisco June 21, 1918.
Articles.	Quantity awarded. Unit price.	Unit prios.	No. of con- tractor.	Point of delivery.	Quantity awarded. Unit price.	Unit price.	No. of con- tractor.	Point of delivery.
Lamp wich: No 0. No 1. No 1. No 1. No 1. No 1. To Por Perfection No 1, student's lamp For No 18. and H. Mammoth lamps For No 28. and H. Immoth lamps For No 48. and H. Immoth lamps For No 48. and H. Radiant lamps For No 48. and H. Radiant lamps For No 48. and H. Radiant lamps For No 18. and H. Radiant lamps For	3 dosen 1 196 dosen 1 196 dosen 1 No say and do do do do do do do do do do do do do	8 8888 8	8 E222 8	State Stat	No award 49 1	85.4 85.84 57.	2 200 K	San Francisco. St. Louis. Do. Do. San Francisco.
] -	1 Only.				

FURNITURE AND WOODENWARE.

	Bids	pened in 8	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Francisc	Bids opened in San Francisco June 21, 1918.
Articles.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Bestrets: Clothes, large.	546.	\$1.80	751	8t. Louis.	138.	€		
pushel bushel		28.28	22	Chicago	No swarddo.			
Double, with iron feet, white enameled Single, with casters, height from floor 27 inches. with rod serves foot piece for a	132 a.	10.25	3 3	St. Louis.	46. No sward.	10.10	8	San Francisco.
clothes hanger, white enamel. Single, with casters, height from floor 17 inches, with rod across foot plece for	16 *.	7.78	35	do	19.	8.50	H	Do
clothes hanger, white enamel. Single, with iron feet, height from floor 27 inches, with rod across foot piece for a		7.76	ž	do	No award			
Single, with iron feet, height from floor 17 inches, with rod across foot plece for a plether hands.		7.75	æ	dp.	135.	8.40	8	8
Extra springs for— Double. Single.	723	1.76	22	dodo	No award	©		
Bowls, wooden, chopping, round: 14-inch. 17-inch.	88.	88	22	Chicago		3.1	99	66
Brooms: Household.	828 dozen	9.1. 5.3	ដដ	St. Louis	343 dozen 1. 25 dozen	≈. \$2	80	66
Bernes. Bernes. Bloom	No award		:			1.25	٠	D&
Dauber Pollshing Btows, 5-row, 10-linch Floor, 10 inches wide, with long handle	Bs dozen a 11 dozen a 808 a	8.1. 8.2. 8.2.	335	Chicago. Bt. Louis. Chicago.	No sward do do 5 dozen No sward	::		6 6
Bureaus, with glass	73	12.81	ង	Bt. Louis.	19	ε		
¹ Purchased under St. Louis con	der St. Louis contract, 25 per cent clause	ģ		Only.	• Additional order subject to contractor's option.	ubject to c	contractor	r's option.

FURNITURE AND WOODENWARE-Continued

	Bids of	ened in S	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Franciso	Bids opened in San Francisco June 21, 1918.
Articles.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Chairs: Hickory or other hardwood for outside use	N. S.				Noneman			
Typewriter, oak Roeking, oak, inside use Roeking, oak, inside use	171 171 No sward	86. 82. 83.	88	St. Louis.	do do No sustric	83 .60	981	San Francisco.
outside use. Solid oak, long post, wood seat. Morris, hickory or other hardwood, for out-		21 88	8	St. Louis.	(*) No sward			
side use. Wood, bow back		6	25	St. Louis:	5.4 dozen 1	16.20	23	ď.
Office, revolving and tilting Chiffoniers, oak, without glass. Churre, herrel revolving lass.	14.1 24.1	888	38 5	8t. Louis.	204 1 4 1 10 No event	2.7.S 1.51	88	để
5 gallons. Clocks, 8-day. Clothesline, galvanized wire, in lengths of 100		 	85	do op	82 1 No sward	4.96	273	б
neet, per 100 teet. Clothespins, spring		8	23	do	108 grass	4.4	130	
Cost hangers, heavy wire. Deaks, medium size:	91 dozen 7	.	Z	St. Louis	22 dozen	€		
Office. Teachers' Dusters, counter, bristle or horsebair Linoleum	101. 31. 78 dozen 1. No award.	31.8.9. 83.83 83.83	3 58	do	21 11 24 y dozen 563 square yards1.	26.50 17.75 8.75 1.75	8502	Do. Do. Do. Los Angeles.
Matting: Rubber, 36 inches wide, corrugated, § inch		1.12	246	Cambridge, Mass	45 yards	1.28	100	
Cocoa, reversible, 36 inches wide; weight 210 yards.	210 yards	.755	25	Wakefield, Mass	10 yards 1.	1.06	9	Los Angeles.
Machines, sewing: "Family, with cover and accessories Tailor's, with attachments. Tailor's, the by 30 inches	5. 5. 44.1	81.85 02.89	223	Chicagodo.	45 No award 24 1	18.50	82 721	Chicago. San Francisco.
Mattresses. Double. Single.	700.1	7.78 6.00	ន្តន	St. Louis.	761	5,75 8,88	22	Los Angeles. Do.
Monaures: 1-peck. 1-bushel.	11.	ង់ម	걸걸	Chicago. No award do do	No awarddo.			

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84n Francisco	Ď.	ŠŠŠŠŠ	វី៩ ៩	ig E	\$	ع ,	ł		Da
0		00000		8 8		٥			124
1.80	18	ष्ध्रंधंधंध		11.62	€	38			4.66
do 84 dozen No award	4 1.	405 pounds 960 pounds 475 pounds 705 pounds 275 pounds			10	No sward.	No award do.	No award	12 1.
122 St. Louis.	Chleago St. Louis	Peorls, III.	do. Philadelphia	St. Louis.	Bt. Louis.	188 St. Lords	do. (e)		Chicago
	25 26 28 28	88888	198	166	ä	٤	222		121
1.39	1.08 15	<u> </u>	i	9.75	3 5 ∞	8			3.48
No award 126 dozen 7 No award	510. 37 1.	1,137 pounds 3,125 pounds 1,370 pounds 2,085 pounds	575 pounds No award 900 pounds	44 dozen 1.	37.	No sward.	140°. 8. 26.	No award	56 1.
Mirrors, glass, not less than 15 by 18 inches. Mopsticks. Palls, wood, heavy, stable pattern.	Pillows, 20 by 30 inches. Rolling-pins, 12 by 2§ inches, exclusive of handle. Rope. manija.		14-inch Settees, hickory or other hardwood, for outside Sash cord. braided cotton. 4-inch diameter		Dining, oak, 6-foot extension, square corners Oak—About 30 by 40 inches	Washbards, double, 21 inches Family size, 10 by 11 inches	Laundry size, 144 by 13 inches. Washstands, wood. Washing machines, for clothes, extra heavy. Washinks wood:	20% inches in diameter by 9% inches deep, inside measurement. 23 inches in diameter by 10% inches deep, No award	25 inches in dismeter by 114 inches deep, inside measurement. Wringers, clothes, rolls 12 by 14 inches

1 Only.

Added to dining, oak, chairs.

Added to solid oak chairs.

Added to solid oak chairs.

Added to solid oak chairs.

Prochased under St. Louis contract, 25 per cent clanse.

Pracked it smaller fots, four 3-dozen cartons in paper.

Additional order subject to contractors option.

Additional order subject to contractors option.

F. C. D. New York, \$11.25; St. Louis, Mo., \$10.50; Omaha, Nebr., \$10.50; Cal., \$12; Los Angeles, Cal., \$12; Port.

B. C. D. New York, \$11.25; St. Louis, Wash., \$12; Newton, Iowa, \$9.90.

Harness, leather, shoe findings, saddlery, etc.

	Bids o	pened in 8	it. Louis	Bids opened in St. Louis May 9, 1918.	Bids open	ed in San	Franciso	Bids opened in San Francisco June 17, 1918.
Articles.	Quantity swarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity swarded.	Unit price.	No. of con- tractor.	Point o delivery.
Awi hafts, patent: Pegging	A dozen	\$0.65	- 22	Chicago	5th dozen	98 08	•	San Francisco.
Barness, white, common, patent screw.	d dozen.	8	12	do	14 dozen	1.23	o.79	D.
A wis, assorbed: Fatent, pegging. Regular, harness, sewing. Patent, sewing, regular shoemaker's bent	214 dozen. 27 dozen. No sward.	35	22	Chicago. St. Louis.	20 dozen 42 dozen 60,4 dozen	±88	880	ខ្ពុំខ្ពុំ
Round, pad, shouldered, with riveted	A dosen1	3.00	22	St. Louis	No sward		i	
Saddler's collar, with riveted handles Bits, loose-ring, japanned, 24-inch, heavy	A dozen 1.	5.25	TZZ.	фо	A dozen	28	•	,
mouthpiece: Jointed Stiff. Blacking, abo Paste, polith for black shoes	13-4 dozen 2-4 dozen 6,382 boxes ' 2,489 boxes *	28.5	BBBB	000 000 000 000	34 dozen No award 1,472 boxes 1,244 boxes	(8) (87) (88)	75	66
Blankets, horse: Cottom and wool mixed Cottom and wool mixed Briddes, riding		2 15 50	125	St. Louis. San Francisco	15 1 4. 257 No award.	8.4 8.8 8.8	22 8	6 00 d
Brushes, horse, leather backs. Buckles, bar rein, with roller, japanned: Inch Inch Inch		8 28	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	St. Louisdodo.	04 No award do	12	a	i d
finch I-inch Buckles, barrel, roller, girth, Japanned, 18-inch.	3 gross. 448 gross. No sward.	44 50	23.53	do	24 gross No award	3.80	3	•
Duckles, Oner, narness, Japanned: -inch -inch -inch -inch -inch -inch -inch -inch -inch -inch -inch -inch -inch -inch -inch -inch -inch -inch	14. gross 5. gross 7. gross 3.4 gross 3.1 gross 2. gross 2. gross 2. gross 2. gross		****	Bt. Louis. do. do. do. do. do. do. do. do.	1 67088 2 87088 8 87088 8 87088 6 87088 1 67088 1 67088		2222222	<u> </u>

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	88		22220		8	8	r's option.
	‡ € €	EE E	44441 85888		32.90	-1 -2	contracto
	13 dozen 2 2 dozen	1 dozen 84 dozen No award 2 dozen	60. 26. 21. 21. 20. 54. dozen No sward	ор)do 16 sets No award	.dodododododododo	*Additional order subject to contractor's option • For cold elimates.
op op	do Chicago 8t. Louis	do do do	Chicago or Omahadododogs. Louis Chicago or Omaha.	St. Louis do	.do.	do. do. do. do. do. do. do. do. do. do.	Addit
	BBBB B	8888	EEEE3E	888	128	2222	
78 78	2888	2525	*44%14 \$28884	11.198	8 3	883% 8	sent clause.
1 dozen 24 dozen 1 dozen 13 dozen		77.14 dozen	67 1 311 1 115 1 27 dozen 8 159 1 No sward	36 pairs 6 pairs 22 pairs	137 sets. No sward. do.	2 1 1 1 31 dozen 1 No award 6 do	ouls contract 26 per
Buckles, roller, trace, Japanned: -inch -inch Buckles, trace, 8-toop, Champion, Japanned: -inch -inch	14-inch 2-inch 2-inch ement, leather, 2-ounce bottles - inches, good quality, web, 3-inch, with center brace of hair - brace o	Sockeys, triangular, with roller, japanned: 11-inch 11-inch 2-inch	Horse- Horse- 194 to 21 inches, by halfinches 194 to 21 inches, by halfinches 214 to 24 inches, by halfinches Mule, 15 to 164 inches, by halfinches Halfers, all leather Half, gray gat,	manney, No., Controlly, Size to ze interest, wood, high top, solid steel backs, l-Inch holes, bothcase, as follows: Bolt, Hook, swivel and ring. Cilp (or staple)	Dottole, concord names— With treeching. Without breeching. Plow, double, with backhand hip strape, without collars, Concord hames. Hooks, hame, double repair (weight 4 pounds per dozen).	inch, oval bandle inch, oval bandle inch, oval handle iare point, paring, 4-inch blade 10-inch, iron frame 1 marnesmaker's s. ortharon, Not. 1, 2, 3, 4, 5	1 Only. Purchased under St. Louis contract 25 per cent cleuse.

HARNESS, LEATHER, SHOE FINDINGS, SADDLERY, ETC.-Continued.

	Bids o	pened in 8	t. Louis	Bids opened in St. Louis May 9, 1918.	Bids open	ed in San	Francisc	Bids opened in San Francisco June 17, 1918.
Articles,	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity swarded.	Unit price.	No. of con- tractor.	Point of delivery.
Leather: Dongola kid— Dull Glazed Glazed Glazed Harness, oak-tanned (15 to 23 lbs., per	No award 4 pounds. 22 pounds. 3,506 pounds	\$4.75 1.65 .08	211 48 145	Chicago or St. Louis St. Louis San Francisco or Beni-	San Francisco 8 pounds 2 pounds 3,651 pounds	84.50 3.15 .67	832	Sen Francisco, Cal. Do. Do.
ndian tan, to run from 14 to 20 a feet per side (per square foot).	6 pounds	 9.	# 8	St. Louisdodo	No award 12} sides*	.445	Z	Ď.
Hemlock Oak. Needles, harness, assorted, Nos. 4, 5, and 6. Nalls, saddle, Hungarian, tinned:	No sward. 4,870. 15 dozen papers 4 No sward.	1.22	88 8	San Francisco. New York	1,200 pounds. 26 dozen papers. No award.	1.36	29	d
Nails show wire, clinching: Size 3-8 Size 4-8 Size 4-8 Size 5-8		. 1526 . 1526 . 1525 . 1525 . 1525 . 1525 . 1525 . 1525	2222222	Chicago do do do do do do		**************************************	66 666666	ទំ ទំទំទំទំទំ
	No awarddo				127 6		88 6	. 66
lling:	359 • 26 • No award	55	ង្គង	St. Louis.		೯೯		
Rivets, hame, Norway, malleable:	6 pounds	91.	22	Chicagododo.	op			

Rings, halter-loop (and ring), japanned: Linch 8 dozen 1 - inch 5 dozen 5 dozen 6 dozen 1 - inch 5 dozen 1 - inch 5 dozen 1 - inch 5 dozen 1 - inch 5 dozen 1 - inch 5 dozen 1 - inch 5 dozen 1 - inch 5 dozen 1 - inch 5 dozen 1 - inch 5 dozen 1 - inch 5 dozen 1 - inch 1 - in	3 dozen 5 dozen	88	N	St. Louisdododo	dozen.	€	
Rings, harness, japanned:	3 dozen		_	do sward	No award.		
Inch	_		_	op	op		
I-theh	_	9	2	op.	do	i	
Rings breaching language	14 dozen	a.			qo	-1	:
It-moh		91.	136		- op		
11-theb		•	_		op	:	•
Rosettes, lapanned, nubla or imitation rubber:		8	_	-	4		
13-Indu	_	Ŗ				:	:
Dules 2 foot attractable bownshood		\$ 9	35		3		:
Saddles riding with horn "Texas" 30 nounds	7	30.5	3 %	do.			
Sheep skins, for shoe linings, pink and russet	12	- :	_	9	ş		
Slides, breast, strap, and snaps, combined,							
14-meh	3 dozen	2	138	St. Louis	Qp.	_	
13-inch		25.5	19	ф	op.		
2-inch		25		ф	ф.		
Snaps, harness, japanned, nubia or imitation			_				
rubber:	- 3	_ (-	•	•		
-inch-	Sty gross	ri (8		go	:	:
1-Inch	ZTT STORE	88	93		op	::::	
	2 + Gross	ń w	3 5			:	
The first	24 proces	j e	3 %		90		•
Spots, silvered, 1-inch:	A RIA	5	1				
Standard	•	8	138	do.	do		
Long staple		:	_		qo		•
Eduares, nip strap, A. C. f-mon		25	_		- G	:	:
Stands from counter regular 4 last 23 inches	4 dozem	9.5	95	Chicago	900	:	
high.			1			:	•
Stirrups, solid bent wood, width of tread 5 8 pairs.	8 pairs	8.	8	St. Louisdodo.	do	:	•
Stitching horses 5-inch jaws	No eword				ę		
Stones, sand, per pound.			5	Chicago	Q.		
inches long	11	3	25	St. Louis	op		
DWIVEN; gug, japanneu, to buck.te: No award	Noaward				ď		
-inch	dp.				go.	_	
1 Per square foot.							

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1 Per square foot.
4 Added to sole, coak.
5 Purchased under St. Louis contract 25 per cent clause.
6 Commercial substitute for neat's-foot oil.
6 Additional order subject to contractor's option.
7 Additional order subject to contractor's option.
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9 Additional or

HARNESS, LEATHER, SHOE FINDINGS, SADDDERY, ETC.-Continued.

	Bids o	pened in 8	t. Louis	Bids opened in St. Louis May 9, 1918.	Bids open	ned in Sen	Francis	Bids opened in San Francisco June 17, 1918.
Articles.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity swarded.	Unit price.	No. of con- tractor.	Point of delivery.
Tacks, shoe: 1-ounce 2-ounce 3-ounce	49 pounds 54 pounds 88 pounds	8 8.4.2	ន្តន្តន	St. Louis. do. do.	17 pounds do 28 pounds	8 282	355	San Francisco. Do. Do.
Taps, heel: Small size. Medium size. Large size.	64 bundles 93 bundles 43 bundles	523	គគគ	Chicagododo.	17 bundles 30 bundles 6 bundles	8.1. 88.51 13.08	666	គឺគឺគឺ
Tanga sole: Small size Medlum size Large state. Terrets, band, XC 1 - Inch	No award do do do do				100 bundles 166 bundles 81 bundles No award do	55.53 85.53 85.53	888	666 AAA
Thread: Harness, No. 3, black	do					2. 28		•
Blood, white— No. 3. No. 10.	do				24 pounds	2. 38	88	దేదే
No. 18.					2 dozen spools	5.04	88	đ
:=	51.00	.47		St. Louis	op.			
0	s, summer and		125	0p	00 00			
Witter competatures: Saddler's, black Shodmarer's, brown Shoenstitch, stationary, with octagon	1,360 balls. 30 balls. No award.	88	뛿뙲	op qo	300 balls. 310 balls. No award.	88	88	គឺគឺ
carriage, Nos. 6, 7, 8, 10, 12, and 14. Winkers, 1-inch, sensible, 2 seams, patent leather.	ор				ф			

1 Only.

AGRICULTURAL IMPLEMENTS, ETC. [Bids opened in Chicago, Apr. 24, 1918.]

Articles.	Quantity awarded.	Unit price.	No, of con- trac- tor,	Point of delivery.
Augers, post hole, 9-inch.	31 1	\$0.84 2.475	121 240	Chicago.
Bags, cotton for flour: 98-pound.		.29	89	
49-Dound	1,2101	1793	44	St. Louis.
25-pound. Bags, grain, seamless, 21-bushel, not less than	1,125. 1,600. 372.	. 1088	44	St. Louis.
12 pounds per dozen. Bags, grain, burlap, 12-ounce. Bush hooks, handled Corn planters, hand. Corn shellers, hand, single feed, medium size Cradles, grain, 4 finers with earthes.	13,410.	2013	44	Kansas City or Omaha.
Bush hooks, handled	71 111	. 96 . 645	121	Chicago.
Corn shellers, hand, single feed, medium size.	21	i 9.40	121 267	Do. Do.
Cultivators:	T	i	227	St. Louis.
1 horse, iron frame, 5 blades, with wheel	13 10	4.30	235 267	South Bend, Ind. Chicago.
Riding, 2 horse	46 1	1.10	121	Do.
Forks: Hay, c. s., 4 oval tines, 5]-foot handles, strapped ferrule.	36 dozen 1	7.58	121	Do.
strapped ferrule. Manure, c. s., 5 oval tines, strapped				
ferrulé— Long handles	43 dozen 1	9.05	121	Do.
	9 dozen 1	9.45	121	Do.
Handles: Hayfork 51-foot, crooked shank, without	56 dozen 1	2.14	121	Do.
ferrule. Plow. 18 by 28 inches by 5 feet—				
Plow, 13 by 24 inches by 5 feet— Left hand, straight	12 dozen (No award).			
Right hand, double bend, for mold board.	11 dozen (No award).		,	
Shovel— Long	47- dozen 1	2.75	121	Do.
Short D-handle	164 dozen 1	3. 41 3. 25	121 121	Do. Do.
Spade, long	47- dozen 1 16 dozen 1 6- dozen 1 12 dozen 1	2.40	121	Do.
Harrows: 60 teeth, 1 by 8 inches, steel, with draw- bar and clevises.	158	13.00	176	Springfield, III.
Disk— 2-horse, eight 16-inch disks	2	22.70	283	Hoosick Falls, N. Y.
3-horse, twelve 16-inch disks 4-horse, fourteen 16-inch disks Hoes:	5		176 176	Springfield, III Do.
Garden, solid socket, c. s., 6j-inch. Solid forged steel, planter's eye, 7j-inch, No. 1, with handle. Grub, c. s., oval eye, No. 2.	8614 dozen 1	5. 20 5. 85	121 121	Chicago. Do.
Grub, c. s., oval eye, No. 2.	A dozen 1	8.10	121	Do.
Corn. c. s., 3 rivets	10 dozen t	278	121	Do.
Hay	83 (No award)	.92	121	Do.
Machines: Mowing—				
41-foot cut	4	54.75	267	Do.
5-foot cut	20	55.60 59.85	267 267	Do. Do.
Harvesterand self-binder, 6-foot cut, com- plete, with transports.		4 :	267	Do.
Mattocks ax, c. s	12 dozen 1	10.80 .78	121 121	Do. Do.
pounds. Plows with extra share:				
8-inch, c. s., 1-horse. 10-inch, c. s., 2-horse. 12-inch, c. s., 2-horse. 14-inch, c. s., 2-horse.	13	9.00 11.00	176 176	Springfield, III. Do.
12-inch, c. s., 2-horse	151	12.00	176	Do.
		13.50	176	Do.
Breaker, with either rolling or standing colter, gauge wheel and extra share— 12-inch.	1	13 50	257	Chicago.
14-incn	None wanted			OTTOMBRE.
Shovel— Double. Single.	No award			
Single	do			

¹ Only.
² For spring trip, add 65 cents per shovel.

AGRICULTURAL IMPLEMENTS, ETC.—Continued.

Articles.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
low beams:				
For 8-inch plow, 5 feet long	No bid	l		
For 10-inch plow, 51 feet long	ldo	l	l	
For 12-inch plow, 6 feet long	do			
For 14-inch plow, 64 feet long For 12-inch "breaker" plow, 63 feet long. For 14-inch "breaker" plow, 7 feet long	do			
For 12-inch "breaker" plow, 61 feet long.	go			
For 14-inch "breaker" plow, 7-leet long	ao	· · · · · · · · · · · ·		
akes: Hay, sulkey, 8-foot, hand dump—				
20 teeth	None wanted			
25 or 26 teath	l do	l		
Hay, sulky, 8-foot, self-dump— 20 teeth. 25 or 26 teeth. Hay, sulky, 10-foot, hand-dump— 25 or 28 teeth.				
20 teeth	4	\$29.10	267	Chicago.
25 or 26 teeth	None wanted			
Hay, sulky, 10-foot, hand-dump-				•
25 or 26 teeth	do			
Hay, sulky, 10-foot, self-dump— 26 teeth. 32 teeth. Hay, wood, 12 teeth, 2 bows				_
28 teeth	2	32.50	267	Do.
32 teeth	7	33.75	267	Do.
Wrought steel handled 12 teeth	104 dozen	2.80 5.05	121 121	Do.
Wrought steel, handled, 12 teeth coops, grain, medium quality, No. 4	158 1	1.17	121	Do. Do.
crapers:	100	4.44	191	
Drag, 2-horse, with runners	27 1	9.25	121	Do.
Fresno, with runners (without wheels)-		*****		
3}-foot	61	21.60	121	Sidney, Ohio
4-foot	41	22.80	121	Do.
5-foot	3 1	24.00	121	Do.
hovels, steel:	l	ı		
Coal, D-handle	259 1	1.05	121	Сріство
LOUR DEMUIE. NO. 2. TOURG SER POLICE	1,046	1.045	121	Do.
D-handle, Nó. 2, square point	1 100 1	. 965	121	Do.
ckies, No. 3, gram	90	.25	121	Do.
Brush, assorted, 21 to 24 inch	14 dozen1	10.75	121	Do.
Grass, assorted, 34 to 38 inch.	A dozen	10.50	121	Do.
Grass, assorted, 34 to 38 inch	2A dozen 1	10.75	121	Do.
tythe snaths, patent ring	6 dosen 1	8.36	121	Do.
	814 dozen 1	. 35	121	Do.
pades, steel:				_
Long handle No. 2.	110 1	1.045	121	Do.
D-handle No. 2. wine, binder, long fiber (sisal)	70 1	1.045	121	Do.
wine, omder, long liber (sissi)	20,700 pounds	. 2395	267	Chicago, Auburn, Y., St. Paul or Po
				I., St. Paul Of Po
wine, saok	335 pounds	.245	92	land, Oreg. New York.
heelbarrows:	oo pounus	.270	84	TIOM TOTY.
All iron, tubular	49 1	7.00	121	Chicago.
Garden, wood, No. 2	61	3.25	121	Do.

WAGONS, WAGON FIXTURES, ETC.

[Bids opened in Chicago, Apr. 24, 1918.]

letrees, hickory, wagon, for narrow or wide rack wagons: 21 by 31	41	\$0.88	277	St. Louis.
24 by 3 24 by 3	None No bid			
3 by 4	1 39 1	1.20	277	Do.
31 by 41	8 (no bid)			
4 by 5	25 1	2.60 3.10	277	Do. Do.
lsters, sand, oak, wagon, narrow track:	None			
21 by 31 24 by 41	61	.74	277	Do.
3 by 44	8 1 12 (no award)	1.00	277	Do.
sters, sand, oak, wagon, wide track:				•
21 by 31 21 by 41	38 (no award)	. 82	277	Do.
8 by 41	281 13 (no award)	1.10	277	Do.

¹ Only.

WAGONS, WAGON FIXTURES, ETC.—Continued.

Articles.			No.	
	Quantity awarded.	Unit price.	of con- trac- tor.	Point of delivery.
Bolsters, rocker, oak, wagon, front, narrow track: 2 by 3 - 2 by 4 - 3 by 4 - 3 by 5. Bolsters, rocker, oak, wagon, front, wide track:	21 281 14 (no award)	1.00	277 277	St. Louis. Do.
24 by 34 24 by 44 3 by 44 34 by 5	No award	1.10	277 277	Do. Do.
28 by 38	2 ¹		277 277 277 277	Do. Do. Do.
posters, osar, wagon, rear, whee track: 21 by 31. 22 by 34. 3 by 4. 33 by 4. 34 by 4. 3 the second condition of the second condition of the second condition.			277 277 277 277	Do. Do. Do.
For eveners 15 inches thick, 4½ inches long, and 5½ inches long, wrought iron, with back clins, stay-chain rings, and	do			
self-fastening pin, per lb. For eveners 21 inches thick, 41 inches long, and 51 inches long, wrought iron, with back clips, stay-chain rings, and self-fastening pins, per lb. Clips, singletree, center, 41-inch clip, 1-inch ring.	do			
Covers, wagon, 10-ounce canvas, 13 feet 9 inches long, 10 feet wide, full size, with draw rope each end and 3 tie ropes (36 inches long) each side. Eveners, hickory, wagon: Full-ironed, narrow track:	48	9.95	274	Do.
With stay chains				
With stay chains. With out stay chains. Not ironed, narrow track. Not ironed, wide track. Pellies (rims), hickory, wagon, bent: by is inches.	dodododo	2.90	277	Do.
1 by 12 inches. 1 by 13 inches. 1 by 13 inches. 1 by 14 inches. 1 by 14 inches. 1 by 15 inches. 1 by 15 inches. 1 by 16 inches. 1 by 17 inches. 1 by 18 inches. 1 by 18 inches. 1 by 19 in	1 set 1 Nonedo No award.	3.40 4.10	277	Do. Do.
14 by 2 inches. 2 by 24 inches. 24 by 24 inches.	do			
Fellies, oak, wagon, sawed: 1a by 24 inches. 1a by 25 inches. 1a by 25 inches. 2a by 35 inches. 3 by 24 inches. 4 by 24 inches. 4 by 24 inches. 4 by 24 inches.				
Hounds, oak, smooth finish, wagon: Front, 3 pieces. Pole, 2 pieces. Rear, 2 pieces. Hubs. wagon. oak:	do			•
	do	.l	.]	.l

WAGONS, WAGON FIXTURES, ETC.—Continued.

. Articles.	Quantity awarded.	Unit price.	No. of contractor.	Point of delivery.
Hubs, wagon, oak—Continued. Not less than 8 inches diameter, length over all 11‡ inches, cupped 1½ inches, mortised 1½ by 1½ inch. Not less than 8‡ inches diameter, length	No sward			
mortised 14 by 7 inch	do		· • • • • • • • • • • • • • • • • • • •	St. Louis.
Not less than 9½ inches in diameter, length over all 13½ inches, cupped 1½ inches, mortised 2 by 1½ inch. Reaches only was not be a continued to the continue of the continue	do			
9 feet 6 inches long by 3 by 1 9 feet 6 inches long by 3 by 1 1	dodo			
wagon: 2 by 7 or 8 inches 2 by 8 or 8 j.nches 3 by 9 inches 3 by 9 inches 3 by 10 inches 3 by 11 inches Spokes, hickory, buggy, 1 inch Spokes, wagon:	dodo			
3 by 9 inches. 31 by 10 inches. 32 by 11 inches.	dododo			
Spokes, hickory, buggy, 1½-inch	11 sets 1	\$3.90 2.55	277 277	Do. Do.
1‡-inch. 2-inch	None 9 sets 1	3.25	277	Do.
Spokes, wagon: 11-inch 11-inch 2-inch 22-inch 22-inch 23-inch 31-inch 33-inch 33-inch 33-inch	53 sets 1	3.80y 4.40	277 277	Do. Do.
21-inch 3-inch	No award			
3j-inch.	do			
For wagon seats, 3-leaf, 28 by 11 inches	112	.90:		Chicago. Do.
Wagon, elliptic. PER LB. Tongues, 1 oek, for drop poles: 2 by 4 by 4 by 4, 12-foot. 2 by 4 by 4 by 4, 12-foot. 219 wagons, as follows, at following prices: Narrow track, equipped with gear brake, full clipped gear, and hooded steel	No awarddo			
skein— 24 by 8 inches, tires 14 by 4 inch 25 by 8 inches, tires 3 by 4 inch		87.95 97.93	248 243 248	South Bend, Ind. Do.
3 by 9 inches, tires 1½ by ½ inch		98. 37 110. 33 106. 57	248 248 248	Do. Do. Do.
2½ by 8 inches, tires 1½ by ½ inch 2½ by 8 inches, tires 3 by ½ inch 3 by 9 inches, tires 1½ by ½ inch 3 by 9 inches, tires 2 by ½ inch 3½ by 10 inches, tires 1½ by ½ inch 3½ by 10 inches, tires 3 by ½ inch 3½ by 11 inches, tires 2 by ½ inch 3½ by 11 inches, tires 4 by ½ inch 3½ by 11 inches, tires 4 by ½ inch 3½ by 11 inches, tires 4 by ½ inch		116.08 122.40 140.45	248 248 248	Do. Do. Do.
full clipped gear, and hooded steel				70-
27 by 8 inches, tires 3 by 4 inch		97. 95 97. 03 98. 37 110. 33	248 248 248 248	Do. Do. Do. Do.
31 by 10 inches, tires 11 by 1 inch 32 by 10 inches, tires 3 by 1 inch 34 by 11 inches, tires 2 by 1 inch		106. 57 116. 08 122. 40	248 248 248	Do. Do. Do.
skeins— 21 by 8 inches, tires 11 by 1 inch 22 by 8 inches, tires 3 by 1 inch 3 by 9 inches, tires 12 by 1 inch 3 by 9 inches, tires 13 by 1 inch 31 by 10 inches, tires 14 by 1 inch 32 by 10 inches, tires 13 by 1 inch 33 by 11 inches, tires 3 by 1 inch 34 by 11 inches, tires 2 by 1 inch 35 by 11 inches, tires 4 by 1 inch 36 by 11 inches, tires 4 by 1 inch 37 by 11 inches, tires 4 by 1 inch 38 by 11 inches, tires 4 by 1 inch 39 by 11 inches, tires 4 by 1 inch 31 by 11 inches, tires 4 by 1 inch 32 by 11 inches, tires 4 by 1 inch 33 by 11 inches, tires 4 by 1 inch 34 by 11 inches, tires 4 by 1 inch 35 by 11 inches, tires 1 by 1 inch 36 by 11 inches, tires 1 by 1 inch 39 by 11 inches, tires 1 by 1 inch 31 by 10 inches, tires 1 by 1 inch 32 by 10 inches, tires 1 by 1 inch 33 by 10 inches, tires 1 by 1 inch 31 by 10 inches, tires 2 by 1 inch 32 by 10 inches, tires 2 by 1 inch 33 by 10 inches, tires 2 by 1 inch 31 by 10 inches, tires 2 by 1 inch 32 by 10 inches, tires 2 by 1 inch 33 by 10 inches, tires 2 by 1 inch 34 by 10 inches, tires 2 by 1 inch 35 by 10 inches, tires 2 by 1 inch 36 by 11 inches, tires 2 by 1 inch 37 by 10 inches, tires 2 by 1 inch 39 by 11 inches, tires 2 by 1 inch 31 by 10 inches, tires 2 by 1 inch 32 by 10 inches, tires 2 by 1 inch 33 by 10 inches, tires 2 by 1 inch 34 by 10 inches, tires 2 by 1 inch 35 by 10 inches, tires 2 by 1 inch 36 by 11 inches, tires 2 by 1 inch 37 by 11 inches, tires 2 by 1 inch 39 by 11 inches, tires 2 by 1 inch 30 by 11 inches, tires 2 by 1 inch 31 by 10 inches, tires 2 by 1 inch 32 by 10 inches, tires 2 by 1 inch 33 by 10 inches, tires 2 by 1 inch 36 by 10 inches, tires 2 by 1 inch 37 by 10 inches, tires 2 by 1 inch 39 by 10 inches, tires 2 by 1 inch 30 by 10 inches, tires 2 by 1 inch 31 by 10 inches, tires 2 by 1 inch 32 by 10 inches, tires 2 by 1 inch 33 by 10 inches, tires 2 by 1 inch 34 by 10 inches, tires 2		140. 45	248	Do.
and hooded steel skeins— 2 by 8 inches, tires 14 by 1 inch 2 by 8 inches, tires 3 by 8 inch		88. 93 97. 18	248 248	Do. Do.
and noted steel steems— 21 by 8 inches, tires 11 by 1 inch. 22 by 8 inches, tires 12 by 1 inch. 3 by 9 inches, tires 12 by 1 inch. 3 by 9 inches, tires 13 by 1 inch. 31 by 10 inches, tires 14 by 1 inch. 32 by 10 inches, tires 2 by 1 inch. 33 by 11 inches, tires 2 by 1 inch. 34 by 11 inches, tires 4 by 1 inch.		100.21 112.27 111.66	248 248 248 248	Do. Do. Do. Do.
by 11 inches, tires 2 by inch		121.14 129.67 147.52	248	Do. Do.

1 Only.

WAGONS, WAGON FIXTURES, ETC.-Continued.

Articles.	Quantity swarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
219 wagons, as follows, at following prices— Continued.				
Wide track, California stake rack bed;	1		Į į	
equipped with gear brake, clipped			1	
	i I	•	1	
gear, and hooded steel skeins— 23 by 8 inches, tires 11 by 1 inch		\$88,03	248	South Bend, Ind.
24 by 8 inches, tires 3 by 8 inch		97, 18	248	Do.
2 by 8 inches, tires 3 by 1 inch 3 by 9 inches, tires 11 by 1 inch 3 by 9 inches, tires 3 by 1 inch		100, 21	248	Do.
3 by 9 inches, tires 3 by 1 inch		112, 21	248	Dò.
34 by 10 inches, tires 14 by 4 inch		111.66	248	Do.
31 by 10 inches, tires 11 by 1 inch 32 by 10 inches, tires 3 by 1 inch 33 by 11 inches, tires 2 by 1 inch		121.14	248	Do.
34 by 11 inches, tires 2 by 1 inch	l	129.67	248	Do.
34 by 11 inches, tires 4 by 4 inch	l	147. 52	248	$\mathbf{D}_{\mathbf{Q}_{\mathbf{a}}}$
34 by 11 inches, tires 4 by inch Narrow track, equipped with hooded				-
steel skein, full clipped gear, and box	1			
handar .				
24 by 8 inches, tires 11 by 1 inch		83. 53	248	Do.
24 by 8 inches, tires 3 by 4 inch		92.63	248	Do.
3 by 9 inches, tires 11 by 1 inch		93.70	248	Do.
8 by 9 inches, tires 3 by 1 inch		105.76	248	Po.
3½ by 10 inches, tires 1½ by ½ inch		101.41	248	Do.
31 by 10 inches, tires 3 by 1 inch		107. 92	248	Do.
or by it michos, the in by Thich				Do.
by Dy 11 menes, tires 4 by 1 men		134.82	248	D o.
Wide track, equipped with hooded steel				
skein, full clipped gear, and box brake-			l	_
24 by 8 inches, tires 14 by 4 inch		83.53	248	Do.
24 by 8 inches, tires 3 by 1 inch		92.63 93.70	248	Do.
3 by 9 inches, tires 11 by 1 inch 3 by 9 inches, tires 3 by 1 inch		105.76	248	Do.
3 by 9 mcnes, tires 3 by 4 mcn	• • • • • • • • • • • • • • • • • • • •	101.41	248	Do.
3 by 10 inches, tires 1 by 1 inch 3 by 10 inches, tires 3 by 1 inch 3 by 11 inches, tires 1 by 1 inch 3 by 11 inches, tires 1 by 1 inch 3 by 11 inches, tires 4 by 1 inch Bows, oak		101. 21	248	Do. Do.
21 by 11 inches, tires 3 by 4 inch		116.77	248	Do.
21 by 11 inches time 4 by 2 inch		134. 82	248	Do.
Born of	None	102.04		Do.
Spring seats	174	2.92	248	Do.
Top boxes	174	(1)	248	Ďo.
Whiffletrees, hickory, wagon:		· ` '		
Full fromed, with wrought strap from and	409	1.11	248	Do.
hooks at ends and iron ring at center			1	1
clip.	1		I	l
Not ironed	235	.48	248	Do.
Yokes, neck, hickory, wagon:	i			_
Full troned	159	1.06	248	Do.
Not ironed, turned to shape and size	9	. 35	248	Do.
	I		ı	1

¹⁷ inches by 10 feet, \$4.66; 9 inches by 10 feet 6 inches, \$5.34; 11 inches by 10 feet 6 inches, \$6.37.

GLABS.
AND
OILS,
PAINTB,
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	Bids or	ened in S	. Louis	Bids opened in St. Louis May 15, 1918.	Bids open	ed in San J	Pranciso	Bids opened in San Francisco June 15, 1913.
Article.	Quantity swarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Borax, powdered. Marking, assorted, 1 to 6. Rathing, assorted, 1 to 6. Paint, wall, flat, long stock— 3 inches wide. Brushes: Rough, you 6. Slating, 6 inches wide. Slating, 6 inches wide. Whitewash, 3 inches wide. Whitewash, 8 inches wide. Whitewash, 8 inches wide. Whitewash, 8 inches wide. Whitewash, 9 by 10. 9 by 10. 9 by 11. 9 by 11. 9 by 11. 9 by 12. 9 by 14. 9 by 16. 10 by 10. 10 by 20. 1	None. 1116 1116 1116 1117 1117 1117 1117 11	8 <u>18</u> 8255 88888888888888888888888888888888	25 2 3 252 253 253 253 253 253 253 253 253 253			88 8 388 11 88 3 388	G . 88 G . 80 E	San Francisco. Do Do Do Do Do Do Do Do Do Do Do Do Do D
12 by 34 12 by 36	9 boxes.			opp				

Buy under 25 per cent clause of eastern contract.

PAINTS, OILS, AND GLASS-Continued.

	Bids of	ened in S	t. Louis l	Bids opened in St. Louis May 15, 1918.	Bids open	ed in San	Franciso	Bids opened in San Francisco June 15, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Glass, window, double thick—Continued. 26 by 30 28 by 32 28 by 34 29 by 34 20 by 34 30 by 40 Glass cutters, rotary or steel wheel type	6 boxes 6 boxes 14 boxes 202 203 375 papers	27.7. 28.2.7. 28.7.7. 72.7.7.	****	8t. Louis do. do. do. do.	None 1.	80 .16		San Francisco.
Glue Cabhetmaker's Liquid, prepared, in cans, cased. Interior varnish: In l-gallon cans.	315 pounds None	.33	2 8 8	St. Louis, Chicago, or Cleveland.	161 pounds	.70.	8° E E	Do. Do. The Tork, Chicago, St. Louis, Omaha, Kaness City, St. Paul, San Francisco I on A meales
	283 gallons	8 48	ञ्च ऋ	Los Angeles.	133 gallons.	इं धंः		වී සීරි
Lead, red: Dry, in kegs. In oll Lead, white. Oakum, plumber 8, not spun.	100 pounds 1,480 pounds 75,825 pounds	(e) 1026 11	*88	Cleveland. San Francisco. Bt. Louis. St. Louis.	200 pounds 200 pounds 24,484 pounds 50 pounds	11211	8580	
	5,671 gallons. (5,167 gallons. (3,735 gallons. (1,500 gallons. (1,155 gallons.	1.38	ន្តដូនដូន	San Francisco. Omaha San Francisco. Omaha San Francisco.	472 gallons None. do	S.	88	Do.
Stean cylinder— In barrels In 6-galion cans Ges or gasoline engine, cylinder—	1,221 gallons 2,060 gallons	2.5	291 291	St. Louisdo	507 gallons 635 gallons	25.	និនិ	6 00
In barrels In Squion cans	1,276 gallons. 790 gallons.	si si	88	dodo	375 gallons	£ä	88	Do, De,

đ ể	San Francisco. Los Angeles. Portland.	Seattle. (San Francisco. Los Angeles. Portiand. Seattle.	San Francisco. Do.	åå	New York.	Chicago.	San Francisco.	Chicago. San Francisco.	Chicago. San Francisco. Chicago.	.	San Francisca. Do.	_
88	ğ	ğ	88	88	ī	3	286	38	383	333	00	
rigi	ង់ខ្លួន	ម៉ូឡូម៉ូម៉	នុំន	zi zi	\$	91.	8	āz	≓8 8	77.2	1.65	-
800 gallons 480 gallons	422 gallons	475 gallons	390 gallons	200 gallons.	None. 1,451 bottles	None. 256 pounds.		237 pounds	None. 180 pounds 79 pounds 1,475 pounds	159 pounds 63 pounds 80 pounds		
do	St. Louis	ф	San Franciscodo.	do.		Chicagodo	do do	0000	San Francisco. Chicago. do do Sr. Louis, Chicago, or	do. Chicago		
22	8	23	88	88		33	823	* 85 E	88 88 88 88 88 88	228 246 138	821	:
84.4	ĸ.	8.	28	ដង		. 16	37570.	ini See	<u> </u>	51.0	1.00 1.375 1.75	
3,845 gallons	678 gallons	1,060 gallons	310 gallons. 1,035 gallons.	575 gallons	Nonedo.	1,280 pounds	327 pounds 302 pounds	415 pounds.	206 pounds 433 pounds 99 pounds 7,850 pounds	199 pounds 336 pounds 172 pounds	12 rolls 20 rolls 80 rolls	Notes:
Medium— In barrels In Sgallon cans	Light— In barrels	In 5-gallon cans	Heavy— In barrels In Sgallon cans	In barrels. In Scallon cans.	2-ounce bottlee None.	Chrome green, medium— Dry In old	Dry In Order	Ivory, drop black, in oil. Indian red, in japan.	Prize in oil. Prize in oil. Prize in oil. Prize mineral.	Stenna, in oil— Baw Raw Venetian red, in oil.	12 rolls 1-ply	Truttant and a Buy under eastern contract

Buy under eastern contract.
 Buy under eastern contrainers, \$0.1173: in \$0-pound containers, \$0.1194; in \$2-pound containers, \$0.1194; in 124-pound containers, \$0.1216.
 Buy under eastern contract \$2 per cent clause.

PAINTS, OILS, AND GLASS—Continued.

	Bids op	ened in 8t	. Louis 1	Bids opened in St. Louis May 15, 1918.	Bids open	ed in Sen	Francisc	Bids opened in San Francisco June 15, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded. Unit price.	Unit price.	No. of contractor.	Point of delivery.
Paper, building, rosin-sized: Light weight. Medium weight Heavy weight. Paper, tarred, crated.	None do do 160 rolls None	£1.40	961	\$1.40 196 San Francisco.	600 pounds 9,800 pounds 1,350 pounds 6 rolls No award	\$0.03 .03 1.65	251 251 251 251	Oakiand, Cal. Do. Do.
Putty: In 5-pound cans, cased In 10-pound cans, cased In 25-pound cans, cased Rosin, common Stain, common Stain, can, light or medium in color, in 1-	3,120 pounds 1,740 pounds 2,250 pounds None 34 gallons	. 04376 . 04376 . 1. 56	888 88	Chicago do do do	1,075 pounds 500 pounds 425 pounds 254 pounds 6 gallons	. 064 . 04875 . 06 1. 44 1. 10	********	812 Francisco. · Do. Do. Do. Do.
galion cans, cased. Turpentine. In Fallon cans, cased. In Fallon cans, cased. Umber, burnt, in oil.	787 gallons 1,675 gallons 1. 428 pounds	883	8888	do Burlington, Iowa St. Louis, Chicago, or Cleveland	363 gallons 1,140 gallons. 516 pounds.	85.1	ដងន	Do. Chicago.
Varnish, wagon Whiting extra, gilders: If in barrels If in wooden drums If in less quantities	122 gallons	1. 26 20. 26 20. 28	2 228	8t. Louis. 41 gallons do. do. 31,035 pounds do.	41 gallons	1.50 .01875 .024 .0275	÷ %%%	Do. San Francisco. Do.

TIN AND STAMPED WARE, STOVES, HOLLOW WARE, ETC.

	Bids o	rened in 8	t. Louis	Bids orened in St. Louis May 11, 1918	Bids open	neg aj pon	Francisc	Bids opened in San Francisco June 22, 1918.	
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	_
Bollers, wash, XX tin, flat copper bottom, size about 21 by 11 inches, fron drop handles, riv-	343 1	\$1.66	121	Chicago	None.		-	ı	
eted, neavy. Buckets, water, galvanized from, heavy, full	1,296 1.	. 576	221	St. Louis	477.	\$0.66	•	San Francisco.	
Saze, 14-quart, 2-men ban. Candlesticks, planished tin or japanned, 6-inch. 4 dozen	4 dozen	8.	ä	qo	7 dozem	22.	۰	Da	
Kerosene, galvanized, corrugated sides,	30-A dozen 1	3.00	121	Chicago	643 dozen	4.50	•	ą	
Milk, all-steel, 32-quart, ironclad, retinned	341	8.	121	фо	2	4.50	•	ğ	
Correspons, LA tun: 2-quart 4-quart	18 ¹ No award	£1.	121	do	None.	8	121	ģ	•
Coffee bollers, XX tin, copper bottom:		٤	Ş		N. C.	!		į	•
11-quart. Coffeepots, 4-quart, gray-enameled ware. Coffee boilers, 6-quart, gray-enameled ware.	161 201 311	. 6. 6. 6. 6. 6.	2555	do do do	61 51 21	8.78	នគន	క్షేక్ష	
Coffee mills: Iron or block-tin hopper box		94.	S	фф	10	22.	•	.	
With wheel, capacity of hopper 6 pounds Colanders, seamless, steel, 164 by 54 inches Cups, full size, XX stamped tin, retinned, riv-		1.42	225	St. Louis	Nonedo				
eted handle:		.085	ង	ф	do				
Dippers, water, 1-quart, XX tin, long handle Flour sifters.	None 144 dozen ¹ . 155 ² .	2.00 172	H	Chicago. St. Louis.	do.	.14	a	č	
Furned, stamped tin, nuted, retinied: 1-quart 2-quart Estitles with covers, wrought-steel hollow ware,	5-4 dozen 1 10-4 dozen 1 8-15 dozen 1	.53 .76 1.10	222	Chicagododo.	14 dozen 24 dozen 24 dozen	1.05	999	900 000	
	None				30 ¹	28 78	22	9°	
lain-lined	38 1	1.40	121	ф	None.	•		:	
1 0 回身.		₹.	ny incre	*Any increase under 25 per cent clause to be at contractor's option.	to be at contractor?	s option.			

TIN AND STAMPED WARE, STOVES, HOLLOW WARE, ETC.-Continued.

	Bids o	ened in 8	t. Louis	Bids opened in St. Louis May 11, 1918.	Bids open	ed in Sen	Francisc	Bids opened in San Francisco June 22, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity swarded.	Unit price.	No. of con- tractor.	Point of delivery.
Measures, XX tin, with full rim: Pint. Quart Quart Pauls, water XX charcosi tin, wired at top, riveted ears; rivets soldered inside: 10-quart, 14-quart, with 34-inch ball woods. Pauls, milk.	None. 1281. 5601. 281. None.	80 0 4 8	E 22	Chicago	None. do. do. do.			
two f-inch oval	92¹. 116¹.	88	22	Chicagodo	14 ¹. 86 ¹.:	1.10	33	San Francisco. Do.
Pans, dish, XXXX stamped tin, retinned: 14-quart. 17-quart. 18-mi dish japanned, heavy Pans, fry, No. 4, wrought steel, polished, 8 inches across bottom.	239 1 201 1 41 dozen 1 47	1.20 1.30 1.15 1.16	5555	dost. Louis.	73 1 118 1 204 dozen	11:1: 58 4 8	2220	Do. Do. Bt. Louis. San Francisco.
Pans, I'Ty, extra-heavy wrought steel: 16 inches across bottom. 17 inches across bottom. 18 inches across bottom. Pans, I'Ty, solid cast Iron, 18 by 30 by 24 inches. Pans, mily, 1XX thi, seamless, wide flange, retinned. extra quality:	None. None. do.	88 80	ង្គ	do.	None. 7 '. None.	% % 8	¥ ¥	8 8
l-quart 2-quart 6-quart 8-quart	do	1.50	88	8t. Louis.	do. 60. 60. 60.			
Plates, IXX stamped tin, about 9-inch: 12 dozen 12 dozen 12 dozen 13 dozen 1	12 dozen 1 59 dozen 1 None	88	22	Chicagodo	5 dozen ¹ 11 dozen ¹ None	88	22	để AA

Pots, soup stock, hotel, wrought steel, covered, retinned:	23 30	% 4	ង្គីង	St. Louisdo	80 4 1	4.0 8.8	22	ខ្ពុំខ្ពុំ	
Scoops, grocers, band, IXX stamped tin,	6	10.16	ä	фф	- 5	13.75	72	Do.	
Spoons, basting, forged steel, retinned, about	37 1. 42. 16-4 dozen	80.27 .31 1.30	ន្តន្ត	Chicago St. Louisdodo	19. 26.1. 2 dozen.	\$0.37 1.70	*3°	San Francisco. Do. Do.	
14-inch handle. Strainers, milk, XX tin, 12-inch. Teapots: Heavy, planished tin, 4-pint, round, copper	71 1 None	8	121	Chleago	11 None	ક	a	Do	
bottom. 4-quar, gray enameled ware 6-quar, gray enameled ware 7In, sheet, eharcoal, bright: 10 by 14 inches, IC		2883. 1868.	ន្តន	St. Louis do	n 11 1. None.	සුෂ	124	o o o	,
					00000				
Trays, tea, oval, oxtra heavy, hotel, japanned, 20-inch. Washbesins, stamped tin, flat bottom, retinned,	25.14 dozen	g. 8.	E 2	Chicago	43 1	Į.	75	Š	
Mashun's galvanized iron, heavy, 104 inches deep: 194 inches in diameter. 214 inches in diameter. 234 inches in diameter. Zinc, sheet, 36 by 84 inches, No. 9.	136. 270. 279. None.	. S325 . S35 1. 085	ន្តនិង	do. do.	25. 47 1. None	1.1. 4.1. 4.1.	1200	666 000	
•	87	OVES, P	IPE, HO	STOVES, PIPE, HOLLOW WARE, ETC.				•	
Caldrons, fron, portable, full jacket, with furnace: 48 gallons capacity 75 gallons capacity Purnaces, full jackets For 48-gallon portable caldron For 75-gallon portable caldron	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$27.37 50.00 23.50	ន្តង ង	Syracuse, N. Y. St. Louis. do.	,				
Collars, stovepipe: Size 4-inch Size 7-inch		28.0	88	Chicago					
¹ Only. ² Any increase unc	Any increase under 25 per cent clause to be at contractor's option.	to be at o	ontractor		* 14-inch accepted.	46-ga	lon cape	46-gallon capacity accepted.	

STOVES, PIPE, HOLLOW WARE, ETC .- Continued:

	Bids o	pened in S	t. Louis	Bids opened in St. Louis May 11, 1918.	Bids open	ed in San	Francisco	Bids opened in San Francisco June 22, 1918.
Article.	Quantity a warded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Dampers, stovepipe: Size 6-inch.	574.	. 075	247	Chicago, Ill., or Freeport,				
Size 7-inch Elbows, stovepipe; adjustable, not corrugated,	76.	.10	247	do				
No. 26 gauge: Size 6-inch Size 7-inch Elbows, strovenine: corrunated, one piece, not	462 ¹	. 20833	150	Chicagodo.				
adjustable, No. 26 gauge: Size 6-inch Size 7-inch	None.	12.00	278	St. Louis.				
Hods, coal, galvanized, extra heavy: 16-inch 18-inch		. 585	245	Detroit.				
Ovens, Dutch, cast-fron, deep pattern: 10 inches diameter inside 15 inches dameter inside								
Pipe, stove, No. 28 gauge: Size 6-ineh Size 7-inch	3,936 joints.	.152	150	Chicago.			1	
Folish, stove 1 Only. 2 45-genor capacity accepted. 3 Por Angel	100 dozen 1	2 .	121	do.				
Stoves. box, heating, wood: 24 inches long.	2	137.15	39	F.o.b.St. Louis or Chicago				
			88					•
Stoves, steel box, heating, wood, not lighter than No. 22-gauge steel, with cast lining (specify height and weight of lining):								
22 inches long. 26 inches long. 28 inches long.	61. 21. 221	\$6.70 \$7.50 \$8.80	444	St. Louis.				
82 inches long	21	\$12.00 \$12.20	88	F. o. b. Chicago or St.				

	1 Uporated.
and and and and and and and and and and	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±
F. o. b. Chicago or St. Louis. San Francisco. Elyris, Ohlo. Chicago. Chicago. Chicago. Chicago. Chicago. Chicago. Chicago. Chicago. Go. b. Chicago or St. Louis. Elyris, Ohio. Chicago. Chicago. Go. b. Chicago or St. Louis. Elyris, Ohio. Chicamati. Go. b. Cuins.	F. o. b. Chicago or St. Louis.
**	28
13. 15. 66. 66. 66. 66. 66. 66. 66. 66. 66. 6	None.
8towe, abeet steel, heating, coal cast lining (specify height and weight of lining), with het-blast tube: 13-inch body 17-inch body 17-inch body 17-inch cotal cast lining), with lined (specify height and weight of lining), exacted. 18-inch cylinder, to weigh not less than 175 pounds. 22-inch cylinder, to weigh not less than 175 pounds. 23-inch cylinder, to weigh not less than 175 pounds. Combined coal and wood, large site, 22-inch cylinder. Combined coal and wood, large site, 22-inch cylinder. Stowes, heating, wood, abest-iron, with outside rodis. 37-inch. Stowes, coal, laundry: For heating 24 irons. For heating 24 irons. For heating 24 irons. For heating 24 irons. For heating 26 irons.	

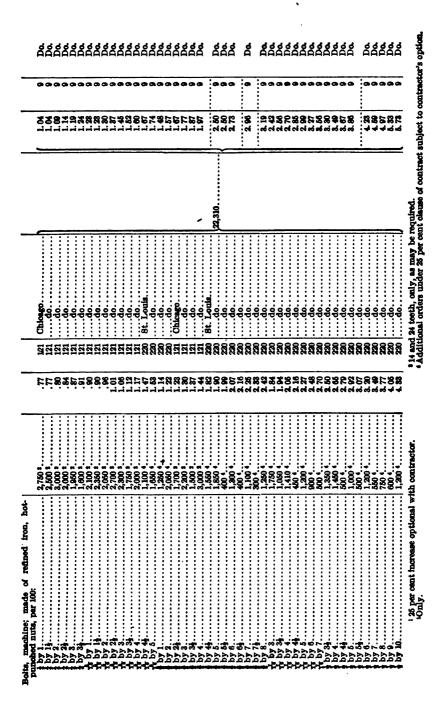
ETC.—Continued.
WARE,
HOLLOW
PIPE,
STOVES,

	STOVE	s, FIFE,	OTTOH	STOVES, FIFE, HOLLOW WARE, ETC.—Continued.	med.			
	Bids of	ened in 8	t. Louis	Bids opened in St. Louis May 11, 1918.	Bids open	od in San	Francisco	Bids opened in San Francisco June 22, 1918.
. Article.	Quantity awarded.	Unit	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Stoves, cooking, wood—Continued. Sinch, length of wood 22 inches, oven not less than 19 by 20 by 13 inches, to weigh about 270 pounds. Sinch, length of wood 22 inches, oven not less than 21 by 22 by 14 inches, to weigh	10.	(121.66 121.96 21.80	22 8	F. o. b. Quincy, III. F. o. b. Chicago or St. Louis. St. Louis.				
Ranges, family size, six 8-meh lids, oven not less than 20 by 20 by 123 inches, for wood or soft coal, large-sized fire box, water front or back.	386	131.00	. 88	F. o. b. Quincy, III				
Ranges, six 8-inch lids, oven not less than 14 by 16 by 10 inches, for wood or soft coal, water front or back.	88	888 888	288	Son Francisco. F. o. b. Quincy, Ill. F. o. b. Chicago or St.				
Btoves, cooking, kerosene oil, wick, 3 burners, blue fame. Stoves, portable, heeting, tubular, kerosene oil, wick.	46 %	111.15	150	Chicago. St. Louis				
			HAR	HARDWARE.				
	Bids	pened in 8	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Francisco	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Adzes, c. s., house carpenter's, square head, 44-inch cut, first quality, to bear manufacturer's	8	\$1.36	3	Newark, N.J.	1	\$1.80	۰	San Francisco.
Anvils, wrought from, steel face: 100-pound 140-pound 200-pound 200-pound Per 1b.	3.	555	222	Chicago do do	1. 2. None.	ងង	00	D0
Auger, fut, with extension up: 1-inch 1-inch 2-inch Augers, c. s., hollow, adjustable, Bonney pettern, to cut § to 1 inch.	10 to 20 to 10 to	8.8.1.1. 8.8.0.2.2.	<u> </u>	60 60 60 60 60	S 2 2 None None	1.288	999	6 6 6 AAA

g	Do.	Do.	o	ද් ද්	San Francisco, Portland,	Do.	Do. San Francisco.	5 6 6	D0.		Akron, Ohio Do.	ÖÖ	Do. Ban Francisca.	96	ide	900	3 d d	5
•	a	•	a	••	90	90	288	88	88		<u> </u>	5 55	9	00		999	999	5
19.20	8.	.13	1.75	36.00 67.00	. 1026	. 1539	4104	. 6567	1 0368			ន់ន់៖	35. 25. 26.	4 c	188	125	655 555	handles.
434 doeen	6	1,460 pounds	None	1 None	12 feet	200 leet.	395 feet. 100 feet 2	20 feet *. 50 feet *.	None. 200 feet a. 230 feet a.	None	106 feet. 58 feet.	276 feet. 250 feet.	60 feet	24 dozen	14 dosen	3 dozen.	it dozen.	Without handles
фо	Chicago	1	Chicagodo	Hillsboro, Ohiodo	St. Louis	do	900	do.	do do	ор	do	do	Chicago	do	Millers Falls Mass	do	do	
121	121		22	100	114	22.5	នងនិ				3 3 3	និនិនិ	121	55	38	22	225	Only.
13.75	.87		1.50	50.00 65.00	. 109	. 162	216	28	<u> </u>	8	.135 81.	25.2	. 3	2.2	144	88	46. 888	3
	301	None	11 2	1. None	140 feet \$	100 feet	670 feet 271 feet	None 572 feet *	None. 117 feet. 419 feet	Nome	55 feet 2. 275 feet 3.	20 feet 3. 57 feet 3.	None 15 2	A dozen !	74 dozen s	844 dozen. 544 dozen	dozen.	Town Lie
Chopping, single-bit, Yankee pattern, first quality, handled with No. 1 handles, assorted, 34 to 44 panuls, to been manulab. Broad o 12 inch out single level steal	head. Hunter's, inserted or overlaid steel, handled,	Babbitt metal, good grade, better than No 4	Deuts: Gov, No. 2, wrought Hand, No. 8, pollshed, extra heevy Bells, school, with fixtures for hanging:	monuted: To weigh 300 to 260 pounds To weigh 300 to 350 pounds To weigh 600 to 425 pounds	woven cotton belting will also be considered): 1-inch, single	11-inch, single	2-inch, single 2-inch, single 2-inch, double 2-inch double	8-Inch, double 4-Inch, double	4+mch, double b-inch, double 6-inch, double	12-inch, double	3-ply 3-inch 3-ply, 4-inch	8-ply, 6-inch 4-ply, 8-inch 4-ply, 8-inch	4-ply, 12-inch Bevels, sliding T, 10-inch, metal handle	bits, suger, c. s., extension lip:	Finch Finch	-inch	Finch Finch Finch	. Crated.

HARDWARE-Continued.

									•
•	Bids	pened to 8	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	d in San F	rancisco	Bids opened in San Francisco June 19, 1918.	_
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	
Bits, auger, c. s., extension lip—Continued. Huch Linch Blades, sax, butcher's, borr, 20-inch Blades, hack saw, 14, 18, and 32 teeth, as may	44 dozen 64 dozen 64 dozen 84 dozen	83. 83 8. 53 1. 85 85 85 85 85	5552	Millers Falls, Mass do. \$t Louis	th dozen. H dozen. H dozen. 24 dozen.	55.0.44 27.72 30	9008	San Francisco. Do. Bt. Louis.	• • • • • • • • • • • • • • • • • • • •
otion, 12-inch	44 dozen * 104 dozen * 1014 dozen *	9.76.00 15.90 15.90	5555	Chlosgo do St Louis	24 gross 3 448 gross 3 3.4 gross 3	5.07 5.34 7.60 17.50	5550	United States of America. Do. Ban Francisco.	
Bolts, carriage, per 100: by 14 by 14 by 24 by 34 by 45 by 47 by 47 by 47 by 66 by 66 by 66 by 67 by 78 by	3,860 3,880 5,500 5,500 3,500 3,500 2,700 3,500 4,180 4,180 4,180 1,680 1,680 1,675	***************************************	តិតិតិតិតិតិតិតិតិតិតិតិតិតិតិតិតិតិតិ	84. Louds do do do do do do do do do do do do do	10,238	\$\$£\$	~~~~~~~~~~~~~~~~~~~~~	คู่คี่คี่คี่คี่คี่คี่คี่คี่คี่คี่คี่คี่คี่	
Darrel: 5-inch. 8-inch.	18 dozen ² 6 dosen ²	1.4 88	ដ្ឋន	Chicago	9 dozen.	4.18	00	ទំ គឺ	



HARDWARE-Coutinued.

									Ī
	Bids o	pened in S	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Franciso	Bids opened in San Francisco June 19, 1918.	
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	_
Bolts, tire, per 100: † by 14 † by 14 † by 14 † by 24 † by 24 † by 24 † by 24 † by 3	1,960 2,330 2,330 700 1,700 1,700 1,200 1,200 1,200 1,500 1,600	2 8883 4	**************************************	New York do. do. do. do. do. do. do. do. do. do.	1,000 1,700 1,700 1,100 1,100 1,100 1,100 1,100 1,000	88.47.88. 88.47.88. 88.47.88. 88.47.88.	0000000000000	San Francisco. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.	
socket. Braces, ratchet, B. B. 10-inch sweep, nickel or	23 l.	1.40	121	Chicago	82	2.50	Θ.	Do	
Brada, ereel wre, in 1-pound packages: -Inch, No. 20 gauge -Inch, No. 18 gauge -Inch, No. 17 gauge -Inch, No. 17 gauge -I-inch, No. 16 gauge -I-inch, No. 16 gauge	25 pounds 1 78 pounds 1 140 pounds 1 116 pounds 1 96 pounds 1	.19 .09 .075 .00	882 <u>22</u> 8	99999	25 pounds 42 pounds 109 pounds 88 pounds 66 pounds	8 ≒588		ಕ್ಷಕ್ಷಕ್ಷಕ್ಷ	
,T.3.T.	16 dozen pairs 1 30 dozen pairs 1 16 dozen pairs 1	. 74	888	do	13 dozen pairs 17 dozen pairsdo.	.1.1 888	000	6 00	
24 by 24 inches 3 by 24 inches 3 by 24 inches 3 by 25 inches 3 by 31 inches 4 by 4 inches 4 by 4 inches 4 by 4 inches	344 dozen pairs 1. 154 dozen pairs 1. 2014 dozen pairs 1. 40 dozen pairs 1. 1344 dozen pairs 1. None.	4 88588 88588	25222	00000000000000000000000000000000000000	20 dozen pairs 8 dozen pairs 4 dozen pairs 20 dozen pairs 2 dozen pairs None.		00000	ಕ್ಷಕ್ಷಕ್ಷಕ್ಷ	
Calipers, spring 6-inch, Yankee pattern: Outside Outside. Cali, toe steel:	7.	ន់ន	148	St. Louis.	dodo				
	176 pounds. 570 pounds.	888	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Pittsburgh, Pa. dodododododododo	36 pounds	99	••	\$ \$	

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. 12	991.	1. 60	34. 24.	22286552		1.25 2.25 2.26 2.26 2.26 3.26 3.26 3.26 3.26 3.26	.0885	
		9 pairs.		&≻&-&- &	None. do. do. do. do. do.	22. 6. 119. 143. None.	do 19,600 square feet None.	Per pound.
Chicago New York			Chloago New York Chloago do.	9 666666	-	do. do. 8t. Louis.	Chicagodo	-
228			មិនដីដ	ដ្ឋមិន្ត្រី	55555555555555555555555555555555555555	121 121 121	22	•
8.88			1.05 33 1.75	xxxxxxxxx	8888188	2.1. 2.1. 8.1.	.026 .0206	
460	None.	do do	QM≒4	28888822 25 25 25 25 25 25 25 25 25 25 25 25 2	200000000	101. 7. Nome do 65 quires 1.	6,100 feet 1. 39,780 feet 1. None	1 Only.
Cards, cattle, leather back, bound edge	Log, 4-inch, short links, with swivel, ordinary hook and grab hook; 10, 12, 14, and 16 feet, as required, per pound. Log, 4-inch, short links, with swivel, ordinary hook and grab hook; 10, 12, 14,	Trace, 7 feet long, about 10 links to the foot, 14 wire gauge, with ring and swivel. Well 24 inches long, with hook and ring	Chalk, carpenter's, assorted colors. Chalk lines, braided, medium size. Chisels, cast steel, cold, octagon, § by 7 inches. Chisels, cast steel, socket, corner, 1-inch, handled. Cheels, cast steel, socket, firmer, sharpened, edges beveled, leather-ton handles:	inch inch inch inch i- inch i- inch i- inch i- inch 2-	Linch Linch	Malleable, carriage, 10-Inch Saw, 9-Inch jaw Cleavers, butcher's, 10-inch Clippers, tollet, good quality, B. B Loch Emery, assorted, per quire Wire, for serons, 4-mesh, assorted widths as may be required, in full mile of 100	lineal feet-Back Galvanized. Cocks, brass, racking, to screw, loose key, 4-inch.	

HARDWARE-Continued.

	Bids o	pened in £	3t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in Sen	Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery
Cocks, compression gauge, without stuffing box (for low-pressure bollers). \$\frac{1}{2} \text{Inch pipe thread.} \text{\frac{1}{2}} \text{inch pipe thread.} \text{\frac{1}{2}} \text{lond pipe thread.} \text{\frac{1}{2}} \text{compression.} \text{gauge, with stuffing box.} \text{Cocks, compression.} \text{gauge, with stuffing box.} \text{Cocks, compression.} \text{compression.} \text	17 1. None.	8 0.40	នន ·	Chicago				
Linch pipe thread. Linch pipe thread. Linch pipe thread. Linch pipe thread. Linch pipe thread. Corkscrews, wood handle, cut worn or wire.		दं <u>प्रं</u> कं छू	គគគគ	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	do do do do			•
Crowbars, solid steel, wedge point, assorted sizes, per pound. Cutters, both, for 4-inch. Extra jaws for cutters, bott, for 4-inch.	13 ¹ . 10 ¹ . 31 sets ¹ .		# 55 55	St. Louis. Chicagodo	17. 9. 5 sots.	25.50 25.50 26.50		San Francisco. Do. Do.
ors, c. s., wing: nch inch.	17.1.	88	នន	op.		25.3	99	D P
Blacksmith's, vertical, 2-speed Breast, 2-speed, to hold either square or round shank.		8.50 8.80	25	do Millers Falls, Mass	Carp.	16.00 2.66	88 8	Do. United States of America.
Bitstock, assorted, 14 to \$ inch by 32ds.; 11 to the set. Straight shank, lobber's, assorted, 14 to \$	27 sets 1.	8 % 8 %	121	Chicago	23 sets	6. 58 8. 58	• •	San Francisco. Do.
ov 32ds, 15 to the set. oring, brace, assorted,	the to ginch by 26 sets 1		ផ		None			.
Faucets, wnnd, cork-lined, best, No. 6		ä	ă	St. Louis		ю.	•	D o
19-inch 12-inch 18-inch (saldnet:	op				op			
	do			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	op.			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	do.			op	op.			

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S-Indh	do.				-do		
10-Inoh.	do				do		
12-Inch.	do				qp		
14-hoh	do				op		
Mes, round, bastard:							
6-Inch	do				op		
8-Inch	do				op.		-
10-inch	do				do.		-
12-inch.	do				do		_
14-inch	đ		-		do		
Files, double end, taper, with bandles:			-				-
7-inch	do.				đ.		
Ginoh			:				:
o-men.			-	***************************************			:
P-Inch.	05		:		on		:
orks, table, 4 tines, nickel-sliver, medium sire,	307 dozen *	*		St. Louis	TIO GOMENT	5.3	917
plain oval nangle, to match take kinyes and	_			•			
spoons onered.	-	;	1			;	•
rames, hack-saw, extension.	. 56 1	ક્ર	2	Chicago	Z	*	3
rates, molasses, No. Z			5	p.	×	R	>
rauges:		_					
Marking, brass-mounted.	30.1	ž	22		9	S.	•
Mortisa gerow clida	12.1	•	2	do.	2	۶	0
Clifting with handle		?	1		None	:	•
Should, when mandle		:		***************************************	TA GEOGRAPHIC		:
masses, gange.	•				•		
by 8 inches	do				do		
by 10 inches	do				do.		
by 12 inches	90				ďo		
L by 10 inches		2	376	Note Vote			:
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\$ by 14 inches	14 dozen		ž		do		•
by 16 inches	4 dozen	3.11	3	op.	op		
by 18 inches	None		245	do.	do.		
hy 71 trahas	1 6 30700		ž				
The total statement of the statement of			3				:
and in increase	o nozen		Š	on	on		:::
by 12 inches	. 12 dozen		3	Ф	do		
by 13 inches	2 dozen		245	ę	do		-
hy 14 Inches	4 doesn		978	New Vork	Z		
The 1st tacked	100000		į				
E DY TO TENTION	- Tomonia		3		on	:	:
Dy It Indust	and dogen		3		do		:
by 18 inches.	2 dozen	8	25		qo		•
by 20 inches	None		2	op	do.		
by 22 inches	Ş		245	Ę	-		
hy 24 inches	9	3	244		90		-
by of the bottom		3 8	3				:
T by to monday.	Ta mozon	88	3		an.		:
2 Dy L2 inches	TOTAL GOZGE	8:	3	on	ao		:
2 by 13 inches	1 dozen	3. 11.	25	op			-
1 by 14 inches.	3 dozen.	~ ~	3	ap	op		-
by 15 inches	None	8	25	do.	do		-
by 16 inches	9 dosen	28.4	3	op.	do.		
		-					
1 Only.		* Additional		orders under 26 per cent clause of contract at contractor's option.	of contract at contr	actor's op	tlon.

HARDWARE-Continued

	Bids	pened in 8	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids oper	sed in San	Francisco	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity swarded.	Unit price.	No. of con- tractor.	Point of delivery.
inued.	None. do. do.	24.4.4.4 888.85	2222	New York do. do.	None. do do			
Conserved guing guage guass:	2 dozen 16 dozen 75-t dozen 65 dozen	111115	2222	Chicagodododo.	6 dozen 16 dozen 8 dozen	\$0.12 13 17 75	0000	San Francisco. Do. Do. Do.
top handles: -Inch -Inch -Inch -Inch -Inch -Inch -Inch -Inch	771	555888	និនិនិនិនិនិ	60 60 60 60 60 60	888888	583888	99999	దేదేదేదేదే
Gresse, cup: If in 5 or 50 pound tins. If in 25 or 50 pound tins. If in 25 or 50 pound tins. Grindstones, mounted, ball-bearing, steelframe and seet, double-treadle, front shield: Weight, complete, 75 pounds. Weight, complete, 100 pounds.	⁽² ,840 pounds) 00. 88.88 88.88 88.88	តិនិ តិនិ	San Francisco. do. Aurora, III.		05. 08.	88 0	ద్దర్గ ద
Weight, complete, 175 pounds. Weight, complete, 175 pounds. Grindstones, unmounted, per pound: Weighing 100 pounds. Weighing 100 pounds. Weighing 150 pounds. Weighing 250 pounds.	Nons. 2233	100000	ត តិតិតិតិ	Aurora, III. Aurora, III. do. do. Cbicago.	. do. Nome. do.	.027.5	9 6	.
Bandes: Chiesi, socket, leather top, assorted. File, malleable fron, timned, adjustable clamp.	22 dozen ¹. 40 ¹.	* 8	ន្ទន	op.	13 None	8.	٥	D o

Ax, 86-inch, bickory, XXX. Hammer, blacksmith's, 18-inch Hammer, claw, 13-inch	None. 26-4 dozen 1. 77 dozen 1.	90.	22	Chicagodo.	do do do			
Handles, hachof Broad, 17-inch Lathing, 13-inch Bhingling, 14-inch	11 dozen ¹ 24 dozen ¹ 84 dozen ¹	8:58	គគគ	op op op op	dododo.			
Plek, 36-inch, "extra". Sledge, 36-inch "extra".	None. 30 dozen ¹	2.50	121	Chioago	do			
Handled, claw, adz eye, bell face; weight does not include handle—	;	;	-			i	•	i
	15. 58.	38.5	328	New Yorkdo.	10	515.5		166
14-pound.	70-1	8.3	22	do	None.	88	•	<u>ಕ</u>
Adz eye, bell face, nail, drop forged, solid		8	8	op	35	E	•	ద్ద
Farrier's, shoeing c.s. Farrier's, turning, half-bright, assorted, Fto	6	 1.57	88	op.	ec 4	8.8	<u>.</u>	ద్దర్గ
24 pounds. Hammers, machinists', ball peen: 14-pound.	77.	8	8	do	19.	5.	0	ď
24-pound	18	s.	8	qp	11	8 .	a	đ
1-pound	15 None	3 .	8	do	6	\$£	00	దేద
11-pound Hammers sledge blacksmith's single face		8	8	do.	None		•	
polished (see and pole only, solid c. s., handled: 2-pound. 3-pound.	81 11	£.	22	Chicagodo	1	1.08	99	దేద
solid c. s.: 6-pound	11.	1.085	1	Bt. Louis	1		٥	ğ
*Pound.	01	 88	11	do		. 5 2 2 3 3 3 3 3		ే ద్ద
pounds, masons, at mush, sold c. s. o- Fammers, masons', natural finish, solid c. s.	31	1.25	121	Chicago			-	
8-pound 12-pound Hammers, tack, upholsterer's pattern, steel	Nome do do				do.	88	٥٥	å å
Hatchets, c. s., good quality: Broad, 6-inch cut, steel head, single bevel,			;				•	
Lathing, No. 1. Shingling, No. 2.	26 1	8 8 12	888	Chicago do do	8. 7. 14.			á á á
			~	1 Only.				

	Bids of	s ui pened	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Hasps, hinge: 6-inch 10-inch	60.4 dozen 1.	\$0.92 1.73	222	Chicago	26 dozen.	2.40		San Francisco. Do.
Hinges, 1: B-linch, heavy 10-linch, heavy 12-inch, heavy	1949 dozen pairs 1 249 dozen pairs 1 219 dozen pairs 1	1.28.85 28.83	555	op op op	54 dozen pairs 1 dozen pairs None.	3.12	00	oo d
Finen, ugnt Staps: strap: 32 dozen pairs, 8-inch, heavy		. 45 25	2 2 2	go go	6 dozen pairsdo.	3.12		Š ŠŠ
		52483		9999	34 dozen pairs. 13 dozen pairs. 2 dozen pairs. 1 dozen pairs.	64.144 84.428		o o o o
Hooks, hat and cost, 2-prong, schoolhouse pat- tern, heavy, spanned.			1 5	op	70 dozem	8	6	Do
	600 pounds 8		ន្តន្តន	Bt. Louis.		5 5 50 5 50 5 50 5 50	00	D O
by 13		*****	និនិនិ	9999	1,663 pounds	5.5.5		1 444 444
Jron Jenbed, A mercent, per 100 pounds: by 1 by 1 by 2		*****	និនិនិនិនិ	9999		**************************************		6666 6666
	100 pounds 600 pounds 770 pounds 570 pounds	2222E	និ	8888	3, 880 pounds	**************************************	9999	5 666
		**********		9999		5. 5. 5. 5. 5. 15. 5.	9099	6666

គឺគឺគឺ គឺគឺ គឺ 		Sen Francisco. Do Do	St. Louis. Do.		San Francisca. St. Louis.	San Francisco. Do. in freight charges.	
aaa a a a	• • • • • • • • • • • • • • • • • • •		E 5		H H	216 216 dvanoe	
20.00 QQ 0	355 5 5 5 355 5 5 5	~~~~~~~ ~~~~~~~~~ ~~~~~~~~~~~~~~~~~~~~	17.47		8 %	2, 60 1, 90 1, 90	
	., a) bounda	.2,440 pounds	660 pounds ¹ None	None do do do do	112 dosem ¹ . 37 *	6 pairs 1. None. Indredweight incress	
දිරිදි පිරිදි	දිදිදිදිදිදිදිදි දි	66666666	op op	00000000000000000000000000000000000000	Chicago.	New Britain, Conn. 4-4 dozen. 2.60 9 San Francisco. 8t. Louis Do. Do	
និងនិងនិងនិង	និតិតិតិតិតិតិតិតិតិ	តិតិតិតិតិតិតិតិ	FE E	ត្តត្តត្តត្ត	5 5		i
*******	*************	4444444444 2 886446 2 28	45 4 45 4	**************************************	1, 90	2, 2, 3, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	
850 pounds 4 860 pounds 4 860 pounds 8 860 pounds 8 870 pounds 8 870 pounds 8 870 pounds 8 870 pounds 8	200 founds 1 1,450 pounds 2 750 pounds 3 1,250 pounds 3 400 pounds 3 700 pounds 3 700 pounds 3 700 pounds 3	2,185 pounds **	1,825 pounds 1 676 pounds 1 300 pounds!	726 pounds 925 pounds 625 pounds 600 pounds 1,300 pounds	364 dosen ¹	35 sets 2	Tommer or comment
by 24 by 38 by 38 by 38 con by by 1 by 1 by 2 by 3 by 3 by 3 by 3 by 3	funch Funch	Junista, galvanized, 30 by 96 inches, No. 28. Unista, galvanized, 30 by 96 inches, No. 28. One pass cold-rolled sheets, 16 gauge, size 30 by 96 inches, 4t inch thick. One pass cold-rolled sheets, 28 gauge, size 30 by 96 inches.	Iron, refined, square, American, per 100 pounds: fineh fineh fineh fineh fineh fineh fineh fineh fineh fineh fineh	le, nickel-silver, medium size, plain oval node, to match table forks and spoons ered. d, thin blade, good quality	e, without oolster, and per set. orged blade und.	The same of the same and the same was a	

	Bids of	ened in S	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Knives, drawing, c. s., carpenter's, hollow- ground: Glinch 12-inch	171.	151 128	122	St. Louis.	3.6	\$1.10 1.25	0.0	San Francisco.
Knives: Horsehoeing, assorted widths, bone handle. Putty, with bolster Skinning, e-inch, beech handle, without		÷ <u>5</u> 8	121 147 121	Chicago New Britain, Conn. Chicago		88	00	D O O
bolster. Latches, thumb, heavy, all wrought Levels, spirit, with plumb, 30-inch. adjustable.		1.28 .90	121	dodo	do6	1.28	0	Do
Closet, rim, dead, 2-tumbler, 34-inch, brass Dolft, with key	15th dozen 2	3.00	121	do	None			
Drawer, 2-tumbler, 24 by 2 inches, iron, with key. Horizontal im normals in truch Arineh brass	1845 dozen 3	8 8 8	121	do	do			
Bolt, with key. Horizontal rim, porcelain knob, 4½-inch,		200	121	do.	do			
brass bolt, with key. Horizontal rim, porcelain knob, 5-inch, hrass bolt with key.	11th dozen?	5.75	121	фо	do			
ain	None			7 T 10	do			
Spring, pad, iron or brass, 3-tumbler or more, 2 keys each, assorted combinations on each shipping order, suitable for out-	181 dollen '	3	<u> </u>	St. Louis	00			
Spring, pad, iron or bruss, 3-tumbler, 2 keys each, assorted combinations on each shipping, order, suitable for inside use; good	69-fr dosen ?	48	텀	Chicago	do			
Sash, heavy, wrought or east, bronzed Lock sets, 34-inch, mortise, jet knobs, bronzed- steel combined rose and escutcheon, brass	43.4 dozen *	6.75	22	-dododo.	op			
boits and sace, with key. Mallets, carpenter's, hickory, round, 6 by 4		.15	E	do	11	\$	۰	Do.
Meebure, tape, 75-foot, linen tape and leather case.	38	8.	ZI.	None.				

De			`						Price specified are for	Francisco d	Mills, the base price, Pittsburgh district, is	\$3.50 per 100 pounds, or Chicago district. \$3.715	per 100 pounds; both	(shipping point).										Bubject to stock on hand.
3	8		įį.	ž	8	į	S .	į	8			į	8	į	Ę	į	8		Ŕ	į	Ŕ		8	ot to sto
1.30	8		8	9	9	8	8	8	<u>}</u>		3		3		8 ₹		\$		4		4 8		4 8	• Babje
13 M '	1,350 pounds *		1,005 pounds *	1 428 normale 3	spannod oce 't) (1)	Space pounds	10.250	to, and pounds		o'or pompor		o, tro pounds o		spumod c/1,0		/4.420 pounds	:	Z,200 pounds		3,400 pounds		350 pounds	* Only.
78do 13 M '		Kalb, Ill. F. c. b. Jouet or De J	5 F. o. b. Joliet or De	F. o. b. Rankin or Far-	5 F. o. b. Joliet or De	5 F. o. b. Rankin or Far-	5 F. o. b. Joliet or De	5 F. o. b. Rankin or Far-	5 F. o. b. Joliet or De	5 F. o. b. Rankin or Far-	5 F. o. b. Joliet or De	5 F. o. b. Rankin or Far-	5 F. o. b. Joliet or De	5 F. o. b. Rankin or Far-	6 F. o. b. Joliet or De	5 F. o. b. Rankin or Far-	F. o. b. Joliet or De	5 F. o. b. Rankin or Far-	5 F. o. b. Jollet or De	5 F. o. b. Rankin or Far-	5 F. o. b. Joliet or De	5 F. o. b. Rankin or Far-	F. o. b. Joliet or De Kalb, III.	contractor's option.
8.	8 4	. s	4, 165	88	4.016	3.70 02.00	3.915	8 8	3, 815	8 8	3, 765	3 26	3, 765	3.80	3, 715	8 8	3,716	8 9 9	8,716	8	3,716	8	\$ 815	subject to
35 M 1	8,950 pounds		4,750 pounds) (M) namede		8 750 mm.d.)	100 2011) spamod one 'er		14,000 pounds	7	*'out pounds) spurped nee'er	1	e, vol pomod ov, o		s, au pounds		o,/w pormod w/,o		300 pounds	ent clause of contract,
Nalls, gilt, uphoisterer's, size 43, packed 50's,	Nalls, wire, steel, per 100 pounds: 8-penny, lath		depend a	Amma		Aronna		D. Contract			m-penny				M-Pound	\$	M-Manu V	•	4 penny		O-penny	,	Fence, 8-penny	Additional orders under 26 per cent clause of contract, subject to contractor's option

	Bids o	pened in	St. Louis	Bids opened in St. Louis May 7, 1918.	Bids oper	ed in Sa	n Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Nails, wire, steel, per 100 pounds:—Continued. Fence, 10-penny	500 pounds	\$3.55 3.765	נט נט	F. o. b. Rankin or Far- rell, Pa. F. o. b. Joliet or De	100 pounds	54. 93	255	<u></u>
Fence, 12-penny	200 pounds	3.55	10 10	F. o. b. Rankin or Far- rell, Pa. F. o. b. Joliet or De	50 pounds1	8. 4	365	Prices specified are for San Francisco dell'very.
Finishing, 6-penny	3,400 pounds	3.95	10 10	F. o. b. Rankin or Far- rell, Pa. F. o. b. Joliet or De	2,185 pounds 1	88	365	If taken at Eastern Mills, the base price, Pittsbuygh district, is \$3.50 per 100 bounds, or
Finishing, 8-penny	4,800 pounds	3.85	10 10	Kalb, III. F. o. b. Rankin or Farrell, Pa. F. o. b. Jollet or De	2,030 pounds 1	23	365	Chicago district, \$3.75 per 100 pounds: both prices f. o. b. mill (shipping point).
Finishing, 10-penny	3,100 pounds	3.965	10 10	F. o. b. Rankin or Far-	925 pounds 1	6.13	392	
Nails, horseshoe, per 100 pounds:	845 pounds 1 855 pounds 1 495 pounds 2 50 pounds 1 10 l	14.50 14.50 16.60 16.60	22222	Chicago Chicago do do New York Chicago	395 pounds 150 pounds 125 pounds 25 pounds 10.	16.04 14.58 18.00 .80	22200	San Francisco. Do. Do. Do. Do.
Nuts, Iron, Square, Daink, not-punered. For 4-inch bolt. For 1-inch bolt.	16 pounds 1 19 pounds 1 218 pounds 2 205 pounds 2 270 pounds 2 245 pounds 3	.085 .065 .065 .062 .135	888888		Nonedododododododo	99	00 00 00 00	9 00
mouth, the straight spout. Ollstones, Washita, composition, or carborundum.	58 2	11.	121	do	19.	2.	•	Do

4	Do	Da	ğ	Š		Akron, Ohle	id	ತ್ರಕ್ಷ	ತೆದೆಕೆ	9	ಕ್ಷಣ	ಕ್ಷಕ	o	9 6 2 6	6	6 6	, 0,	ė ć	Do 6	900	6	option.
	88	88	88	88		55	123	3 5					101	E E	5	35	2	ğ	101	55		contractor's
	8.	8	8	88		88.8	88	38	388	888	388	38	8.	88				88	.8	8:	38	ntract at
None- do do do do do do do do do do	25 pounds 1	10 pounds 1	127 pounds 1	5 pounds 1. do	do.	29 pounds	13 pounds		_		1 pound	dodo			None	None.	1 pound.	None	do		g.	per cent clause of con
Cucinnatt, Ohio do. do. do. do. do. New York St. Louis	Chlcago	do	do	00000000000000000000000000000000000000	do	Akron, Ohio	do.	p	do	do	do	do	op	do	do	000	qo	do	op.	op.	do	* Additional orders under 25 per cent clause of contract at contractor's option
222222 2322222 2322222 2322222 232222 232222 23222 23222 23222 23222 23222 23222 23222 23222 23222 23222 23222 23222 23222 23222 232 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 232 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 232 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 232 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 2322 232 2322 23				: : : : : : : : : : : : : : : : : : :	3		<u></u>			•		<u></u>	÷		÷	÷	<u></u>		<u>· · · · · · · · · · · · · · · · · · · </u>	55	<u> </u>	PY.
25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5												_									_	
<u> </u>	25.52	123.52	323.5	នៃនៃង	33	8	8	38	388	38.	38.8	38	8	58	8	38	8	88	8	88	8	
	20 pounds 2					17 pounds	• •	• •	• •	· ·	336		:					:		98op	99·	Only.
	Finch.	35 pounds 2	spunod 16	17 pounds 1 None 8 pounds 1		17 pounds	40 pounds	30 pounds	• •	5 pounds	Op	op	12 pounds.	26 pounds	8 pounds		26 pounds.	:		-Inch Lanch	op	· Subject to stock on hand.

HARDWARE-Continued.

	Bids o	pened in S	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	t'nit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Screws, flat-head, bright, per gross—Continued, 21-inch, No. 14. 2-inch, No. 14. 3-inch, No. 18. 3-inch, No. 18. Shears, c. s. innanned handle, straight, trim-	20 gross 1 2 gross 1 16 gross 1 7 gross 1	\$0.51 .58 .74 .968	8888	Chiengo. do. do.	& gross None 5 kross 1 gross	8. 8 1. 8 1. 53	a a	San' Francisco Do, Do,
mers, good quality: Sheitel Bheiter Shears, tunners, hand, drop forced, steel laid Nados, handband and tempered	114, dozen '	6.25 9.67	121	op	5 ₁ 3 dozen	9.31	0.3	D D D
50 parts pure lead,	9.1 12.1 None	1. 25	121	op	7 6 1,02% pounds 2	2. 2. 1. 6. 1. 5.	629	000 000 000
Soldering nears, per pound: L. poun 's each L. poun's each Shoes, to ac high assorted, front and hind, per	op			29 pairs 1	28 pairs t	5.3	273 273 273	St. Louis. Do.
Firon handle,	250 pounds 1.330 pounds 2.50 pounds 2.50 pounds 2.50 pounds 2.50 pounds 620 pounds 2.50 pounds 2.50 pounds 2.50 pounds 2.50 pounds 2.50 pounds	ក្នុងក្នុង ក្នុងក្នុង ភូមិស្ត្រក្នុង ក្នុងក្នុង	666666 6666 <mark>2</mark>	Pittsburgh do do do do do do do do do do do do Chicago		######################################	8333338 8833	Prices specified are for Sn Francisco delivery. If taken delivered at mill, base price \$5.85 per 100 pounds f. o. b. mill, Pittsburgh, Fa. San Francisco.
Figure 1 (197) Figure	178 dozen 1 440 dozen 1 21 dozen 1 29 dozen 1	1.72 2.8625 1.15	2222	00 00 00 00 00	Se dozen 1 Iss dozen 1 Ist dozen None		216	8 6 8

Bquares, try: 6-inch 10-inch	35 t	8.	122	122 St. Louis	16.	35.	_	ď
Squares, try and miter, 74-inch. Staples, wrought iron, 3 inches long.	101	2 8	121	Chiesgo	7 17 dozen	. 12	:66	D0.
el, cist: # by 3 inches		. 165	99	St. Louis.	None	_		
by 4 inches	None.	.165	88	do	do		_	
Steel, cast, octagon:	_	3	3		<u>. </u>	:	-	
}-inch	254 pounds	. 165		do	225 pounds	_	_	ç.
4-Inch	Is thought	91.		40	240 pounds	1679		o c
- Inch	1.200 nounds	3 22	38	do do	3.5 pounds	555		90
1-inch	825 pounds	155			300 pounds	1625		ő
1,-fach		. I.35		qp	on pounds	. 1625		ದಿ
Speed (1.14) Square:	200 north, le	165	S		40 points	1795		٤
		91.	38		25 pounds	1675		
j-inch	275 poun ls	. 155	3		None	:		
J-jnch.	250 pounds	. 155	8		qp	<u>:</u>	-	
I-inch		.155	88		ор		_	ć
2-lach	550 nouncle	3 3	88	do	100 pounds	1625		90
Steel, plow:		3	3					5
2 1. y 3 i.h. 1.8.	425 pounds 1	. 075	5	do	20 pounds.	.075	6	o C
A Dy 4 Inches	125 pounds	5,0.	7 6	do			_	ė
by 6 incaes.		.075	27.7	00	100 pounds.	075	:6	å
Steel, spring:)
by I inch	75 pounds!	. 0675	22	do		-	_	į
t by 14 inches	150 pounds 1	999	7 6	00 do	50 pounds	- 200	30	.
I by I in to tes	None 1	0.00	27.7	do.	_	_		5
ly 2 inches	200 pounds.	. 0675	27.	do	_	.085	6	100
Steels, atteler's, 12-meh, wood of bone handle,		3	121	Chicago				ģ
iocks and lies, 'lacksmith's, to cut \$, 16, 3, 17,	None			000000000000000000000000000000000000000	None.			
1, 2, 3, 7, and 1 inch, complete setto include								
z stocks, i tap normer, and 9 taps, in case). acks, mobalstarer's, per nomid:								
2-ounce, 1-pound net mackages.	31 pounds 1	. 22	_	Chicago				Ď,
3-ounce, in 4-pound net prekares.	18 pounds 1	2:		•				ġ.
6-ounce in 1-pound not prokense	As pour let	165		do.	zo podnos			96
S-ounce, in 1-pound net packages		91.	12	op	55 pounds	_		io
10-ounce, in 4-pound net packages		.16	55	do	10 pounds	25.5		åå
Telomice in Thomas not backers on	Te bounds	201.	171		To bourness	-	-	š
	Only			•	•			

*Additional orders under 25 per cent clause of contract at contractor's option.

*Additional orders under 25 per cent clause of contract at contractor's option.

*Allogical by War Industries Board and furnished by Phoenix Horse Shoe Co.

*Subject to stock on hand when order is received.

HARDWARE-Continued.

	Bids o	pened in 8	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ned in San	Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Rivets, fron, oval head: Inch diameter, inch long Inch diameter, 2 inches long Inch diameter, 2 inches long	9 pounds 6 pounds 16 pounds 22 pounds 28 pounds 113 pounds	\$0.1275 .125 .11 .11 .105 .105	*****	New York do. do. do. do.	None I pound. None 7 pounds 6 pounds None.	छ श्र श्रश्न	a aa	San Francisco. Do. Do.
inch diameter, I inch long inch diameter, I inches long inch diameter, 24 inches long inch diameter, 24 inches long inch diameter, 34 inches long inch diameter, 41 inches long	45 pounds 38 pounds 28 pounds 29 pounds 21 pounds 31 pounds	5.5558	8888888	9 9999 99999	No pounds None- do do do do do	Ŗ.	20	.
S : : : : : : : : : : : : : : : : : : :	4,000 I 11,000 I 9,000 I 5,000 I 5,000 I	7.612.82.83	711112E	St. Louis do do do do Chirago	2,000 5,000 3,000 1,000 1,000 None	22233	62,002	5 666 6
Bullished face, wrought handles, per pound, Bew set, lever, For crosscut saws. For thandsaws.	120 pairs 1	8 55.85	<u> </u>	op op	10 paus			o o o
Back, 12-inch, blued back Buck, complete, 30-inch blade, painted frames. Circular, 28-inch, reossutt	141. 21. 3	38. 1. 38. 52. 52. 52. 58. 58. 58. 58. 58. 58. 58. 58. 58. 58	121 121	do do New York	None 10. None	. 70	G	P
Circular, 30-inch, crosscut Circular, 30-inch, rip Compass, 12-inch, Conscut, 2-foot, with handles Crosscut, 6-foot, with handles Hand, 28-inch, hollow back, 6 to 10 points	4446-X	16.86 2.75 3.10 1.40	% 5555		45 40 40 40 40 40 40 40			ద
Meat, butcher's bow, 20-inch. Rip, 28-inch, 44 and 5 points	24 1	æ'æ'	22	op	None5	1.30	0	Ď.

Ď	6 0	ğ	90	Do

Publicant country statement Nomes	Booles: Butcher's dial face, spring balance, square pan, 30-pound, by ounces.	16.	% %	245	New York	None		
14	6-ton	None		-		do		-
1	Platform, counter, 240-pound	141	7.70	220	Binghamton, N. Y.		12.25	75
Mone	Flatform, drop lever, on wheels: 1,000-pound	21	23 25 25	121	dp	2	88	25.
Manual	1,500-pound	None.	96.96 96.08	22	do	None	2.58	a
Chicago Chic		32 th dozen	& &	83	_	None		T
11 11 12 12 12 10 10 10	6-inch steel blade running through handle 8-inch steel blade running through handle	893 76 1	8,8	22		do		
None. 22 gross 15 gross 15 gross 16 gross 17 gross 17 gross 17 gross 18 gross 18 gross 18 gross 18 gross 18 gross 18 gross 18 gross 18 gross 18 gross 19 gross 19 gross 19 gross 19 gross 19 gross 19 gross 18 gross 11 gross 11 gross 12 gross 11 gross 11 gross 12 gross 11 gross 11 gross 12 gross 11 gross 11 gross 12 gross 11 gr	10-inch steel blade running through handle. Screws, wrought iron, bench, 14-inch	43 3	8.3	ន្តន		do4	1.00	G
22 gross 15 gross 15 gross 15 gross 15 gross 25 gross 25 gross 25 gross 37 gross 37 gross 37 gross 25	Screws, wood, bench, 23-inch.	None		i		Моле		-
15 ptross 15 p	Finch, No. 3	22 gross 1	.127	28	Chicago	13 gross	8	0.
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	27	٠.	1375	× ×	qo.	5 gross	<u>.</u> 8	
1.2 gross 1 1.5 gross 1 1.6 gross 1 1.6 gross 1 1.6 gross 1 1.7 gross 1 1.7 gross 1 1.8 gross 1 1.9 gross 1 1.9 gross 1 1.1 gross 1 1.1 gross 1 1.2 gross 1 1.2 gross 1 1.3 gross 1 1.4 gross 1 1.5 gross 1 1.6 gross 1 1.6 gross 1 1.7 gr	12		132	200		7 gross	12.	. 0
70 gross 1 7 gross 1 7 gross 1 7 gross 1 7 gross 1 7 gross 1 7 gross 1 7 gross 1 7 gross 1 7 gross 1 6 gross 1 6 gross 1 7 gro	No. 5	25 gross 1	. 1375	200	do	9 gross	ដូ	
7. 6 (1708) 7. 6 (1708) 7. 7 (No. 6		15	200		23 gross.	3.4	
77 gross 1 77 gross 1 77 gross 1 76 gross 1 86 gross 1 87 gross 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No. 7.		150	82	•	15 gross	23.	6
7.4 gross 66 gross 66 gross 66 gross 66 gross 66 gross 66 gross 67 gross	NO. 8		1676	20 20	op	21 gross	5.5	
O gross O gross	No. 8		178	28	op	10 gross	8	
20 gross 22 gross 22 gross 23 gross 23 gross 23 gross 23 gross 23 gross 24 gross 25 gross	f-inch, No. 9.	gross 1	82	2	op		8	<u> </u>
120 ft ross 120 ft ross 120 ft ross 130 ft ross			17.26	202	do	31 gross	8,8	
78 gross 78 gross		• -	3.3	200	O	do.	3.5	. 0
13 gross 13 gross 13 gross 14 gross 12 gross 12 gross 13 gross 14 gross 15 gross	0		.213	20	:	14 gross	8	0.0
10 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 Z		212	æ ¢	OD	gross	¥.8	3
125 gross 1 44 gross 2 1 gross 3 1 gross 3 1 gross 3 2 gross 47 gross 4 2 gross 47 gross 4 4 gross 4 4 gross 4 5 gross 4 6 gross 4 6 gross 4 7 gross 4 6 gross 4 6 gross 4 7 gro	No.		242	200	op		38	. 0
14 R1088 15 G1088 18 G1088 19 G1088 19 G1088 17 G1088 17 G1088 18 G1088 18 G1088 18 G1088 18 G1088 18 G1088 18 G1088	11-Inch, No. 10	-	742	20	op.		8.	0.0
11 gross 28 gross 19 gross 19 gross 2 gross 25 gross 1 gross 1 gross 1 gross 1 gross 1 gross 1 gross 1 gross	No. 11			200	90	2007	3.5	3 0
2	11-inch, No. 11		8	20	op	20 gross	4	. 0
1 9 gross 1 19 gross 4 7 gross 1 2 gross 2 2 gross 1 7 gross 1 1 gross 1 5 gross 1 9 gross 1 6 gross 1 5 gross 1 5 gross 1 6 g	14 inch, No. 12		.317	22	op	4 gross	평!	00 (
2 gross 1 25 gross 1 7 gross 1 15 gross 1 6 do.1	3a		3,8	20.00	:	17 gross	29	.
2.5 gross 1.7 gross 1.7 gross 1.1 gr		ETOSS 1	8	200		None		•
3	2-inch, No. 12	25 gross 1	.352	20	op	14 gross	22	6
14 9 gross 15 do.1	2-inch, No. 13	7 gross 1	68.5	200	op	None None	3.	>
INO. 10	2-inch, No. 14	9 gross 1.	467	200	do	6 gross	.75	œ
	NO. 15.	·····ao.	8.	8	ao	None	·	:

	Bids o	pened in £	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	led in San	Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Packing, sheet gasket rubber: Frinch Frinch Frinch Frinch Frinch	35 pounds 342 pounds 482 pounds 25 pounds	80. . 42. . 42. . 42.	8888	St. Louis. do. do.	45 pounds 1 207 pounds 1 155 pounds 1 25 pounds 1	25 25 25 25 25 25 25 25 25 25 25 25 25 25	8888	San Francisco. Do. Do. Do.
Faring, total inserted rubbersheet for graskets 1-10ch 1-10ch 1-10ch 1-10ch 1-10ch 1-10ch Packing, twisted fiber graphite valve stem	None. 68 pounds. 147 pounds 8 pounds. 122 pounds.	ន់ន់ន់ន់េ	88888	ის ის ის ის	55 pounds. 75 pounds. 30 pounds. 10 pounds. 69 pounds.	5.2.3.7.1.1 7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	88888	99999
Factor, nonly, stlane; rest (name): -inch	8 pounds. 1 pound. 500 quires! 115 dozen?	£. 8.8.	121	do do New York Chicago	10 pounds. None 273 cuires 51 docen.	.34 34 3.10	8 000	0 0 0 0 0 0
Planes, good (Plantity, as pollows: Block, e-inch, knuckle joint. Fore, adjustable, wood or iron bottoms. Planes, wood-hollow and round, c. s.: Linch.		1.10	121	40	5 None.	, 1.50 2.50	00	
Platter Platter Jack, adjustable, wood or iron bottoms. Joiner's, adjustable, wood or iron bottoms. Planes, match, Iron: Linch Linch Linch Linch	111 1 6 1 None.	1.50	121	Chicago	8 1 None.	22.10	0.0	6 6 AA
Figures: Plow, embracing beading and center- Plow, adding plane, rabbet and fillister, dado, plow, matching and slitting plane. Bado, fron 1-inch. Rabbet, iron, 1-inch. Rabbet, iron, 1-inch.		1.70	21 21 21	Chicagododo.				
Smooth, adjustable, wood or fron bottoms	-	1.50		do	2	1.75	œ.	De

Combination, 4-luch Combination, 4-luch Gid-cutting, 7-luch, c. s., heavy Roud nose, 7-luch, c. s., heavy End-cutting, nippers, reversible blade, 10- Liuch, c. s., heavy Proses mest good grainlity entitable for schools	128 1 94 1 None 18 1	.70	22 21	do. do. Chicago.		25.	6.0	0 0 0 0
and hospitals. Punches: Hand oval, assorted, Nos. 1 to 16. Harness, spring, revolving, 6 titles. Saidler's, e. s., round, to drive, assorted, Nos. 1 to 12.	42. 3? 1 20 1	.55 .70	148 121 121			02.	G	6 A
Conductor's, heavy, assarted shapes of holes 12-inde 12-inde 14-inch 14-inch 14-inch 15-inch 14-inch 15-inch 1	3.1. 5.1. 27.0.1. None.	25 4 5 3	2 22 2	do. do. do.	3. do	\$5.52 2.50 2.50 2.50 2.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3	000	6 66
Rasps, wood, flat: 12-inch. 14-inch.					33	1.03	. 00	D o. Do.
Rasps, wood, half-round: 12-inch 14-inch Rivet ofte rote rote in had and blindt	dodo				% T3	.58 1.24	 G G	Do.
No. 2 No. 3 No. 7	61 21	8.6%	222	Chiragododo.	7. 11. None	55.	G G .	00 00 00
Fivers and nurs, copper, in 4-pound noxes: - inch No. 8	11 pounds 44 pounds 62 pounds 40 pounds 29 pounds 6 pounds	<u> </u>	222222 222222	New York do do do do do	2 pounds. S pounds. 20 pounds. I b pounds. I S pounds.	:::::::::::::::::::::::::::::::::::::	 	
- Finch, No. 100 - Finch, No. 100 - Finch, No. 100 - Finch, No. 100 - Finch, No. 100 - Finch, No. 100	8 pounds 20 pounds 8 pounds 2 pounds	8 4 4 4	22222 22222 22222 22222 2222 2222 2222 2222	8 0 9 00		888	3.50	000 000 000
Finch, No. 12 Finch, No. 12 Finch, No. 12 Inch, No. 12	15 pounds 20 pounds 16 pounds	\$ 5 5 5	2222	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	None	20.00	000	0. 0. 0.

1 Only, \$0.2425 per quire; No. 1, \$0.25 per quire; No. 1½, \$0.2676 per quire; No. 2, \$0.285 per quire; No. 2½, \$0.305 per quire; No. 3, \$0.365 per quire; No. 3, \$0.365 per quire; No. 3, \$0.365 per quire; No. 3, \$0.305 per

	Bids o	pened in 8	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San]	Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Thermometers: Mercurial. Spirit. Trimmers, spoke, adjustable	215 ¹ 75 ¹ 5 ¹	\$0.21 .3025 .22	222	Chloago do. do.	None. 2	\$0.36	169	169 United States of Amer-
Trowels: Brick, 104-inch. Brick, 104-inch. Trayère (tweer), Iron, adjustable pattern, single,	421 151 2	.36 6.70	121 121 423	op do do	Ø.7.6	1.05	2360	San Francisco. Do. Do.
Vises: Blacksmith's, solid box, 6-inch jaw. Blacksmith's, solid box, 44-inch. Square slide, 4-inch jaw.	51.	36.85 6.35 8.35	222	do. St. Louis.	Nonedo.		· ! ! !	
washers from hat: For finch bolt For finch bolt For finch bolt For finch bolt For finch bolt For finch bolt For finch bolt For finch bolt For finch bolt		9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.	ន្តន្តន្តន្តន្ត	do. Chicago. Chicago. St. Louis. do.	37 pounds. 26 pounds. 68 pounds. 243 pounds. 206 pounds.	164 125 125 105 100 0375	33333 33	2 00000
's, solid ste		. 136 1.40	8 55	New York. Chicagododo.	None. do.	.12	6	,
Wire, annesied, blued: No. 16 No. 20 No. 21		.0675	22	do.	Nonedo			
Wire, bright fron: No. 3. No. 6. No. 7.		.046	121	Chicago	None			
		946 946 850	222	do do do do do	o o o o			
No. 14 No. 14 No. 16		: :	121	op op	0000			
No. 18	20 pounds 1	.0545	121	op	op			

•	
ૡૼ	San Francisco. 9 Do. Do. 9
g 00000	221 20 00 00 0
5	2.1.82 9.99 2.20 2.20 5.00 5.00 5.00 5.00
dodododododododo.	None
Samkin or Farrell, Ph. Goldson or Farrel	None None
00000 00000 000000 000000 0000000 000000	241 114 241 148 121 121 121 121 121 121 121 121 121 12
889. 888. 888. 888. 888. 888. 888. 888.	\$1.45 1.95 1.95 1.90 1.50 4.50
3,900 pounds	None
Wire, 2-point barbed, for hog fence; main wires not farger than 10 gauge; barbs not barger than 11 gauge; space between barbs not to exceed Galvanized Black Wire, 2-point barbed, for cattle fence; main wires not larger than 10 gauge; barbs not larger than 11 gauge; space between barbs not larger than 11 gauge; space between barbs not coveed 5 inches; Galvanized Black Wire-fence staples, steel, 1-inch and 14-inch, as may be required; Galvanized Black Wire stretchers for barbed wire Black Wire stretchers for barbed wire Black Wire first handle, screw, black: Winch 12-inch 16-inch 16-inch 16-inch 17-inch 16-inch 18-inch	Cement, gas fitter's, in 5-pound packages Cuttors, pipe, 3-wheel: To cut \$ to 1 linch. To cut \$ to 2 linches. Furnaces, blast, gasoline, combination, hot blast, complete, with melting pot. Ledies, wrought, double lip: 6-linch Plers, pas, lorged: 6-kinch Ratchets, sieve: Handles 16 inches long Handles 16 inches long Handles 16 inches long 1 only.

PIUMBER'S AND STEAM AND GAS FITTER'S TOOLS. FITTINGS. AND SUPPLIES—Continued.

	Blds o	pened in S	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Beamers, pipe: -inch. -inch. -inch.	0	\$0.46 .61 .76	11 11 1	St. Louis.	1 2 2 3 3	\$0.75 1.00 1.25	888	San Francisco. 1'o. 1'o.
1-inch Sinch Blocks and dies, pipe, adjustable:		:-:: :28 8		do 3 serie	1 do	3, 13	6 0	D o.
1 to 2 inches. Ta pp., pipe: 3-inch		::- ::: \$		St. Louis 3	1 set	10.00 57.		, , , , , , , , , , , , , , , , , , ,
Finch. Linch. Linch. Linch. Linch. Planch. Wiss. Pinch. Wiss. Pinch.			######################################	do Chicaren do do	1	33.5.5.8 83.3.3.8.8.8 83.3.3.8.8.8.8		000000
ie 2 freh pipe. Wrenches, jalie: Ileliach Beinch		1:33	111	114 St. Louis.		2.93		D
			PIPE F	PIPE FITTINGS.				
Bibbs. lever handle, plain, finished, pipe thread: None \$6.52 177 Decatur, III	shed, pipe thread: None. 114 118 10 118 10 10 10 10 10 10 10 10 10 10 10 10 10	60. 52 . 58 50 50	137 147 147 147	177 Decatur, III. Neuron Neuron Neuron New Britain, Conn 72 72 72 72 72 72 72	Nem- 272 281 281 None Ao- Ao- Ao- Ao- Ao- Ao- Ao- Ao- Ao- Ao-	\$0.63 .84 .77		Dubuque, Iowa. San Francisco.

	من نو	2		New Britain, Conn	do.		-	
	Inch.	228 420 1	. 6775	do (Thicago	138 ato	28.38	158 1	North Chicago. Dubuque, Iowa.
Bibl	Bibbs, compression, plain, finished, with thim-	7		New Dillain, Cond		<u>:</u>	<u> </u>	
3	treb	10.	 .92	Decatur, Illdo.	3. None	2.	177 8	San Francisco.
Rng	I-inch Bashings mallashia iron	None		ор	op	-	i	
1	by a inch by a inch	346.		Chicago	176. 203.	කිය	66	Do. Do.
	by in h	95.7 (33)		do	4201 3031	ස <u>ි</u> සි	25	D o. Do.
	1 by 14 inches 14 by 14 in thes	312	.0405 57	do	10% 1	#5	22	Do.
ź	Ij by 2 jurhes. s. matteable from black, ner nound:	0.00		op	681	990.	<u>%</u>	D o
}	1-In the	75.1	.13 241	do	301	25.55	124	Do.
	20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	1171	133	đo	501	225	25	000
	1-inch	741		do.	- A	123	25	00
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	2-in the street government and morning.	35 1		qo	do			
3	-inch	fl			do		-	
	t-Inch	154	220		161	.31	124	Do
	-inch	10.0	2 22	do	1151	<u>ج</u> ج	22	00 00
		610	16 57	do.	38	ន់ន	00	6 d
	2-in the contract of the contr	36		qo	36.	ដែ		D o
3	straight:			•				
	- : :	27.30	. 225	op.	22 1.	.3225	121	800
ğ	by 1 men, wrought iron, black, beaded:	30	ò			6378.	<u> </u>	đ
		53.	57.	ပုံ				
		989	241	đo đ	223	<u>2</u> .8	22	0 00
	Limbh Limbh	0	085 57		18 1 8 None	80.	62	Do.
1	II-in in	9	22		- op		: :	ė
.•	Z-tnch	30			9.4.	- T:	70	đ
	l Only.	* Plain.	Addition	Additional orders under 25 per cent clause of contract at contractor's option	clause of contract at	contractor's	o ption .	

PIPE FITTINGS-Continued.

	Bids o	pened in §	st. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ned in San	Franciso	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Couplings, wrought iron, galvanized, beaded: -inch-inch-inch-inch-inch-inch-inch-inch	74 78 283 3 284 244 197 174 174 174	\$0.03 .03 .0456 .065 .065 .09	241 241 551 551 551	Chicago. 60 60 60 60 60 60 60 60 60	101 101 101 101 101 101 101 101 101 101	80.0875 .0475 .08 .08 .11 .11	2222222	San Francisco. Do. Do. Do. Do. Do.
Couplings, R. & L., malleable fron, black, bestled, per pound:	· · · · · · ·	13		.do.				ţ
14-in-h 14-in-h 2-in-ch Couplings R. & L. malleable fron. galvanised.					000			
beaded, per pound: Inch Inch Inch Inch Inch Inch Inch Inch	do. 17 do. 18 24 28 8 18 8	ង្គីដូជីងី <u>៩ ១ ១ ១</u>	27.25.25.25.25.25.25.25.25.25.25.25.25.25.	Chleago. do. do. do. do. do. do.	мове. - do - do - do - do - do - do - do - do			
Crosses, malleable from, black, beaded, per pund: - Inch -	None None do do do do do	.16	15	2. None. 16 57 do. do. do. do. do. do. do. do. do. do.	60 do 65: 40 lb5 lb5 lb5 lb5 lb5 lb5 lb5 lb5 lb5 lb5	195 195 195	622	දි දි ද

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	224 88 8 8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	96. 1727 661 681 888 888 354 288 288		200 000 000 000 000 000 000 000 000 000
Crosses, malleable fron, galvanised, beaded, per pound: -inch -inc	Finch Finch	per pound:	bent, beaded: by by Inch by by Inch by by Inch by by Inch Elbows, R. & L., malleable fron, black, beaded, per pound:	Finch Finch

PIPE FITTINGS-Continued.

				i					
		Pids ope	ned in S	t. Louis	Rids opened in St. Louis May 7, 1918.	Bids open	ed In San	Francisc	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	İ	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.:	Unit price.	No. of con- tractor.	Point of delivery.
Elbows, R. & L., malleable fron, galvanized, braded, per pound—Continued. 1-in h 1-in h 2-in h 2-in h	29. Nome.	 	\$0.224 . 16		Chievgo do	None.			
Elbers : mallerble from black, side outer, best-styler pound: Storing in the stor			ដង ដងដងដង	######################################	Chirerso. do. do. do. do. do. do.	do - 10 - 20 - 10 - 20 - 1 - 10 - 3 - 10 - 1 - 10 - 10	8. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	22.23	San Franc isoo. D o.
Let, be afted, per pain, li Fired, Fired, Fired, Fired, Fired, Heis th	51 5. Nome 100 do do do do do do		នុគី	57.	do.	None	218 254	នឹ	San Francisco,
Gas service cocks, brass, female: -inch -i			8 6 5 4 8	22222	Chir. godododododododo.		38.	. .	Cincinnati, Ohio.
hy inches by inches by i inches by i inches by i inches by i inches by i inches by i inches by i inches by i inches by i inches	88 140 1651 174 186 82 u		0153 0153 0246 033	55555	00 00 00 00 00 00 00 00 00 00 00 00 00	651 651 1831 1871 631	. 0175 . 0175 . 022 . 035	222222	San Francisco. Do. Do. Do. Do.

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PIPE FITTINGS—Continued.

	Bids of	S ui penec	. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Francisco	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Pipe, steel, black, per foot:		\$0.034	241	Youngstwn, Ohlo, in	· Out			
1-1ucn			22	F. o. b. Chicago Youngstown. Ohio, in	op.		:	
Fluction	1 500 604 1		22.	F o. b. Chicago			:	
4 -Inch.	1,000 1001	25.00	22	F. o. b. Chicago Youngstown, Ohio, in				
finen.		.0825	នីនី	F. o. b. Chicago Youngstown, Ohio, in	Ç.			
		.0845	22	F.o.b. Chicago. Youngstown, Ohio, in	Ç			
11-inch		134	3 3 3	F. o. b. Chicago F. o. b. Voungstown, Ohio, in carload lots.				
2-inch	749 feet 1.	181	•	F. o. b. Youngstown, Ohio, in car load lots. F. o. b. Chicago.	op			
Pipe, steel, galvanized, per foot:	504 feet 1.	.049	241	F. o. b. Youngstown, Ohio, in carload lots.	op			
1-inch.	579 feet 1		3 3	F. o. b. Youngstown, Ohio, in carload lots. F. o.b. Chicago.	op			
+Inch	4,454 feet 1	.0574	22	Ohio, in carload lots. F. o. b. Chicago	do			
-Inch	6,069 feet 1	.0718	241	F. o. b. Youngstown, do. Ohio, in earload lots. F. o. b. Chicagodo.	op			

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2,734 foet 1 1405 1,734 foet 1 1631 1,324 foet 1 1738 1,946 foet 1 2202	Linch None 12 12 12 12 12 12 12 1	127 101	97 02 131 02 36.2 02 440 08 440 08 178 0625 178 0625 187 0625 187 0635 105 106	inch (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

PIPE FITTINGS-Continued.

	Bids	pened in 8	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids open	ed in San	Franciso	Bids opened in San Francisco June 19, 1918.
Article.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Peint of delivery.
Reducers, maileable iron, galvanized, beaded, per pound: by inch by inch by inch by inch by inch by inch by inch by inch by inch by inch by inch by inches	90 137 228 208 204 182 1182 92	2 22 22 23 23 23 23 23 23 23 23 23 23 23	25,575,55	Chleago do do do do do do	None 6 6 50 74 72 22 22 22 10 10 10 10 10 10 10 10 10 10 10 10 10	ខ នាន់ន់ដដែ	99999	Ban Francisco. Do. Do. Do. Do.
Stopocts, brass, steam:	63. 6. 7. 7. 11. 11. 11. 11. 11. 11. 11. 11.	##5885## ##5885## ##	222222	Decetur, III Cincinnatt, Ohio Decetur, III do Chicago	6.6.6.8.13.12.5.12.5.12.7.13.7.13.7.13.7.13.7.13.7.13.7.13.7	35.28 2.1. 3.1. 3.1. 3.1.	1177	Dubuque, Jown. San Francisco. Dubuqque, Jown. Do. Do. Do. Do.
Tees, maileable iron, black, beaded, per pound:	65. 119. 1102. 102. 102. 103. 104. 105. 106. 106. 106. 106. 106. 106. 106. 106	**********	33333333	9 6666666	24828842	22.22.25.25.25.25.25.25.25.25.25.25.25.2	44444°°°°	ค ือคือคือคือคือคือคือคือคือคือคือคือคือคื
pound: linch linch linch linch linch linch linch	25.55 28.58 28.58 28.03 28.01 10.22 114.1	<u> </u>	8 5 6 6 6 6 6 6 6 6 6 6	99999999	16 1 16 1 20 2 20 7 10 7 66 1 36 1	ង់ង់ង់ ខ្លួញ់ខ្លួញ់	333333 3 3	4444444

Tees, 4-way, malleable iron, black, beaded, per pound;								
Inch Inch Inch Inch Inch Inch Inch Inch	00000000000000000000000000000000000000					195	88	5 6 0 0
per pound: Inch. Inch. Inch. Inch. Inch. Inch. Inch. Inch. Inch. Inch. Inch. Inch. Inch. Inch. Inch. Inch.	8 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ត្តភ្នំភ្នំភ្នំភ្នំភ្នំភ្នំភ្នំភ្នំភ្នំភ្នំ	541 Chicago 557 do 557 do 567 do 577 do 577 do 577 do		20 20 20 20 20 20 20 20 20 20 20 20 20 2	27.2 27.2 27.2 27.2 27.2 27.2 27.2 27.2	8888888	5 5555555
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Unions, malteable from, galvanized: - Inch	73 1 89. 319 819 819 819 826 126 116 110	. 0966 1182 118 1187 1187 1187 2768 8546 8546	241 do	9099999	331 881 1164 1168 1168 1168 109 104	355 25 25 25 25 25 25 25 25 25 25 25 25 2	33333333	៩៩៩៩៩៩៩
sure 250 pounds working water pressure: Inch Inch Inch Inch Inch Inch Inch Inch	25.00 20.00	741 1.083 1.1083 1.1083 1.1083 2.093 2.007 11.128	22 C C C C C C C C C C C C C C C C C C	99 99999999	33. 1230 173 173 174 144 174 174 174 174 174 174 174 174		aaaaa°aaaa	Checkmatt, Obis, Do. Do. Do. Do. San Francisco. Cincinnati, Obio. Do.
¹Only.	Platn.	₹.	dditional orders un	der 25 per oe	Additional orders under 25 per cent clause of contract at contractor's option	at contractor	's optik	ė

PIPE FITTINGS—Continued.

	Bids	Pened in 8	t. Louis	Bids opened in St. Louis May 7, 1918.	Bids oper	ned in San	Francisc	Bids opened in San Francisco June 19, 1918.
Article	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.	Quantity awarded.	Unit price.	No. of con- tractor.	Point of delivery.
Valves, angle, 150 pounds working steam presents and 200 pounds working water presents:	17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	80.72 1.855 1.485 1.485 1.985 3.98 8.39	222222	Ohloggo do do do do do do do	13 22 22 12 12 12 10 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10	6-1-1-1-4-4 4-2-8-5-4-8-8 4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	9999944	Sen Francisco. Do. Do. Do. Do. Do. Do. Cincinnatt, Obie.
eure, 1% pounds working water pressure: -InchInchInchInch	16 98 163 163 22 22 24 17	. 7613 . 7613 . 8663 1. 0763 1. 947 1. 9425 3. 8325 5. 75	ग्रंग्यंग्रंग्यंग्रं	ଦ୍ରଶ୍ର ପ୍ର ପ୍ତ ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ୍ର ପ୍ରତ	None. 37 None. None. do. do.	1.88	0	San Francisco.
S-inch Bure, 200 pounds working steam pressure; Linch Linc	<u> </u>			do. do. do. 1.14 204 None 1.19 204 <td>do</td> <td></td> <td>******</td> <td>Cincinnati, Obie. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.</td>	do		******	Cincinnati, Obie. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.

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.do	нове соорв.	Chloago Sk. Louis Chicago do.	Chicago do do do do 8t. Louis	000 000 000 000 000	8t. Louis. do. 8t. Louis. do. do.	¹ Only.
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2. 679 3. 5625 4. 6455 7. 41		80, 1326 22 .513 .72	. 2255 1888 1888	: : : : : : : : : : : : : : : : : : : 	. 364 . 50 1. 55 2. 33 4. 96	
14. 36. 12. None.		173 1. 80. 1 1. Nome.	29 dozen 1 Nono. 14 dozen 1 I dozen 1 do. 9,650 feet	100 feet. None. 1,900 feet 1,600 feet	None. do. do. 611 101. None. 7 None.	
1-inch 14-inch 15-inch 2-inch		Gouplings, hose, east brass:	Hose clamps, brass, per dozen: For Huch hose For I Huch hose For 2-Inch hose	Hose, courson. Tubber-lined, in lengths of 50 feet, countied. Ocupied: I-inch I-inch I-inch J-inch	1-inch 1-inch 1-inch 2-inch Nozzes hose serew. combination, 1-inch 1-inch 1-inch 13-inch 2-inch 2-inch	

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MEDICAL SUPPLIES. [Bids opened in St. Louis, May 18, 1918.]

Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Acids: Acetic, U. S. P., in bottles containing	None			
4 ounces. Boric, U. S. P., in cartons containing	3.380 cartons 1	80.043	160	New York.
4 ounces.	146 bottles	.36	162	St. Louis.
Hydrochloric, U. S. P., in g. s. bottles containing 1 pound. Nitric, U. S. P., in g. s. bottles containing	72 bottles	.28	162	Do.
Sounces. Salicylic, U. S. P., in bottles containing	36 bottles	.45	107	Do.
8 ounces. Sulphuric, commercial, for fire extinguish-	476 bottles 1	.25	122	Do.
ers, in 1-quart bottles. Tannic, U. S. P., in cartons containing		. 35	162	Do.
4 0111088.	90 cartons	. 30	102	D0.
Fluid extracts, U. S. P.: Cascara sagrada, U. S. P., in bottles con-	429 bottles	. 485	221	Chicago.
taining 16 ounces. Ergot, U. S. P., in bottles containing	304 bottles	. 45	194	St. Louis.
4 ounces. Glycyrhiza, U. S. P., in bottles contain-	320 bottles	. 65	194	Do.
ing 16 ounces. Ipecac, U. S. P., in bottles containing	118 bottles	. 95	194	De.
Senna, U. S. P., in bottles containing	129 bottles	. 2275	167	Do.
4 ounces. Hypodermic tablets: Adrenalin and novocaine, in bottles of 10	223 bottles	. 65	194	Do.
(edrenelin_1_grain_novocaine 4 grains)		.80	194	Do.
Apomorphine, hydrochlorate, U. S. P., is grain, in tubes of 25. Atropine, sulphate, U. S. P., riv grain, in	67 tubes	.07	194	Do.
ULDES OF 20.			1	
Cocaine, hydrochlorate, U. S. P., 1 grain, in tubes of 25.	220 tubes	.15	194	Do.
Emetine hydrochloride, U. S. P., i grain, in tubes of 25.	91 tubes	.72	194	Do
Morphine, U. S. P., † grain, atropine,	474 tubes	.26	194	Do.
in tubes of 25.	486 tubes	.15	194	Do.
Nitroglycerin, U. S. P., The grain, in tubes of 25.	149 tubes	.05	194	Do.
Pilocarpine, hydrochloride, U. S. P., grain, in tubes of 25.	43 tubes	. 25	194	Do.
in tubes of 25.	353 tubes	.04	194	D o .
Tablet triturates: Aloin, U. S. P., 140 grain, in bottles of 100. Atropine, sulphate, U. S. P., 140 grain, in	40 bottles	. 06	102	Louisville, Ky.
DOTTIES OF 100.	95 bottles	.13	194	St. Louis.
Caffeine, citrated, U.S. P., grain, in bottles of 100.	183 bottles	.12	194	Do.
Calomel and sodium, U. S. P. (calomel is grain, sodium bicarbonate 1 grain), in bottles of 500.	479 bottles	. 12	97	Glens Falls, N. Y.
Calomal and sodium, U. S. P. (calomal 1	466 bottles,	. 15	194	St. Louis.
grain, sodium bicarbonate 1 grain), in bottles of 500. Cascara sagrada, U. S. P., powdered ex-	409 bottles	.06	17	Chicago.
Cascara sagrada, U. S. P., powdered extract, I grain, in bottles of 100. Codeline, U. S. P., without sugar, ‡ grain, in bottles of 100.	280 bottles	.30	215	St. Louis.
Codeme, C. S. F., without sugar, 1 grain.	307 bottles 3	. 58	215	Do.
in bottles of 100.	53 bottles	. 05	102	Louisville, Ky.
Corrosive mercuric chloride, U. S. P.,	104 bottles	. 07	17	Chicago.
bottles of 100. Santonine and calomel (santonine) grain, calomel grain), in bottles of 100.	150 bottles	.40	194	St. Louis.
Surycimine, surpriste, A. grain, in potties	215 bottles	.14	194	Do.
of 500. Tartar emetic, U. S. P., A grain, in bot-	46 bottles	.06	102	Louisville.
Terpin hydrate, U. S. P., 4 grains, heroin.	296 bottles	. 65	17	Chicago.
regrain, in bottles of 500.]	l] !4!	

¹ Additional orders under 25 per cent clause of contract at contractor's option.

² Only.

MEDICAL SUPPLIES-Continued.

REDICAL	BULL DIAB COL	MALINDUL.		
Article.	Quantity awarded.	Unit pr.ce.	No. of con- trac- tor.	Point of delivery.
Compressed tablets: Acetanilid, U. S. P., 21-grain, in bottles of	997 bottles	\$0.07	17	Chicago.
of 100. Acetphenetidin, U. S. P., 21 grains, in	156 bottles	. 25	102	Louisville.
bottles of 100. Acetyl salicylic acid, N. N. R. (or aspirin),	2,383 bottles	. 178	221	Chicago.
3 grains, in bottles of 100. Corrosive mercuric chloride, blue, for ex-	458 bottles 1	.11	122	St. Louis.
ternal use, in bottles of 25. Same as above, in bottles of 500 Hexamethylenamine, U. S. P., 5 grains,	155 bottles ·	1.15 .44	122 194	Do. Do.
in bottles of 500. Heroin, hydrochloride, N. N. R., A grain,	221 bottles 2	. 39	215	De.
in bottles of 100. Phenolphthalein, U. S. P., 1 grain, in bot-	None			
ties of 500. Phenolphthalain, U. S. P., 3 grains, in	None			
bottles of 500. Phenyl salicylate, U. S. P. (salol), 5	300 bottles	.20	194	Do.
grain, in bottles of 100 capsules. Quinine, sulphate, U. S. P., 3 grains, in	781 bottles	. 52	194	Do.
bottles of 100. Sodium chloride, U. S. P., for normal salt solution (16‡ grains pure sodium	147 bottles	.08	17	Chicago.
chloride). Sodium salicylate, U. S. P., 5 grains, in	350 bottles	. 545	221	Do.
bottles of 500. Sulphonethylmethanum (trional), U. S. P., 5 grains, in bottles of 100.	{13 bottles 85 bottles	1.69 1.45	167 183	St. Louis. Norwich, New York,
Thyroid glands, dried, U. S. P., 2 grains,	194 bottles	.12	194	or Chicago. St. Louis.
in bottles of 100. Tannalbin, N.N.R. (albumen tannate),	None			
5 grains, in bottles of 100. Trinitrophenol, U. S. P. (pieric acid), in	None		<u> </u>	
veronol, N. N. R., 5 grains, in bottles of	None		<u> </u>	
100. Aromatic elixir, U. S. P., in bottles containing 16 ounces.	1,472 bottles	Ì	221	Chicago.
Oils: Camphorated oil (3 grains camphor in pure clive oil) in boxes of 1 dozen 2-c, c.	168 boxes	. 45	17	Do.
ampoules. Castor, U. S. P., cold-pressed, in bottles	6,984 bottles 1	. 14	122	St. Louis.
containing 4 ounces. Castor, U. S. P., cold-pressed, in bottles	1,204 bottles 2	.90	19	New York.
Cloves, U. S. P., in bottles containing 2	349 bottles	. 515	167	St. Louis.
conces. Cod-liver, emulsion of, simple, U. S. P.,	1,963 bottles1	.44	122	Do.
in bottles containing 16 ounces. Cod-liver, U. S. P., in bottles containing	1,284 bottles	. 575	167	D o.
16 ounces. Cottonseed, refined, in bottles containing	985 bottles	. 34875	167	D o .
Croton, U. S. P., in bottles containing 1	23 bottles	. 15	68	San Francisco,
Eucalyptus, U. S. P., in bottles contain-	366 bottles	.09	167	St. Louis.
ing 1 cunce. Linseed, U. S. P., raw, in bottles contain-	(343 bottles	.32	167	Do. Chicago.
ing 16 ounces. Methylsalicylste, U. S. P., in bottles con-	1,230 bottles	. 32 . 075	17 107	St. Louis.
taining 1 ounce. Off of theobroma, U. S. P. (cocca butter)	155 cakes	.20	167	Do.
in 1-pound cakes. Peppermint, U. S. P., in bottles containing 4 ounces.	148 bottles 1	.95	122	De.
Santal, U. S. P., 5 minims, in boxes containing 24 capsules.	74 boxes	. 55	170	Do.
Turpentine, U. S. P., in bottles containing 32 ounces.	1,220 bottles	. 28	141	Do.
Pills, or sugar or chocolate-coated tablets: Aloin (‡ grain), beliadonna (‡ grain), strychnine (;† grain), N. F., in bottles of 500.	345 bottles	. 07	221	Chicago.
Camphor and opium N. F. (camphor, 2 grains; opium, 1 grain), in bottles of 100, Cathartic, vegetable, U. S. P., in bottles	147 bottles	. 25	194	St. Louis.
Cathartic, vegetable, U. S. P., in bottles of 500.	428 bottles	. 40	194	Do.

¹Additional order under 25 per cent clause of contract at contractor's option.
² Only

MEDICAL SUPPLIES—Continued

Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Pills, or sugar or chocolate-coated tablets— Continued. Compound cathartic, U. S. P., in bottles	585 bottles	\$0 . 50	194	St. Louis.
of 500. Iron carbonate, U. S. P., in bottles of 100 Yellow mercurous iodide, U. S. P., ‡ grain each, in bottles of 100.	357 bottles 506 bottles	.08	221 97	Chicago. Glens Falls, N. Y.
Tinctures: Aconite, U. S. P., in bottles containing 8 ounces.	18 bottles	. 335	221	Chicago.
Belladonna leaves, U. S. P., in bottles	111 bottles	. 2175	221	Do.
containing 4 ounces. Benzoin, compound, in bottles containing 8 ounces.	130 bottles 1	. 3 8	122	St. Louis.
Capsicum, U. S. P., in bottles containing	94 bottles	. 26	167	Do.
d ounces. Cardamom, compound, U. S. P., in bottles containing 16 ounces.	82 bottles1	. 50	122	Do
Colchicum seed, U. S. P., in bottles con-	49 bottles	. 28	183	Chicago, New York, or Norwich.
taining 4 ounces. Digitalis, U. S. P., in bottles containing 4 ounces.	245 bottles	. 225	167	St. Louis.
Gentian, compound, U. S. P., in bottles containing 16 ounces.	270 bottles	. 54	229	Cedar Rapids, Iowa.
Ginger, U. S. P., in bottles containing 8 ounces.	214 bottles	. 49	229	Do.
Iodine, U. S. P., in g. s. bottles containing 8 ounces.	970 bottles	. 48	194	St. Louis.
Chloride of iron, U. S. P., in g s hottles	83 bottles	. 29	221	Chicago.
containing 16 ounces. Myrrh, U. S. P., in bottles containing 4 ounces.	51 bottles	. 285	167	St. Louis.
Nux vomica, U S. P., in bottles contain-	209 bottles	. 33	221	Chicago.
opium, camphorated, U. S. P., in bottles	331 bottles	. 65	194	St. Louis.
containing 16 ounces. Opium, U. S. P. (laudanum), in bottles	33 bottles 1	3.68	122	Do.
containing 16 ounces. Rhubarb, aromatic, U. S. P., in bottles containing 16 ounces.	77 bottles1	. 45	122	Do.
Miscellaneous: Acetanilid, U. S. P., powdered, in cartons	77 cartons	. 225	162	Do.
containing 4 ounces. Acetphenetidinum, U. S. P., in cartons	19 cartons	. 26	175	St. Louis, Omaha, Kansas City, St. Paul, San Francisco,
containing 1 ounce.				Los Angeles, Port- land, or Seattle.
Adeps, lanæ, U. S. P., anhydrous, in cans containing 1 pound.	74 cans	. 64	167	St. Louis.
containing 1 pound. Alcohol, U. S. P., 190 proof, in bottles containing 32 ounces.	2,139 bottles 1	.34	122	Do.
Alcohol, denatured, in cans containing 1 gallon, cased.	359 gallons 1	1.20	122	, D o.
gallon, cased. Alum, U. S. P., crystals, in cartons containing 1 pound.	122 cartons	. 075	167	Do.
g. s. bottles containing 16 ounces.	256 bottles1	.70	122	Do.
containing 32 ounces	908 bottles	.41	162	Do.
tons containing 1 pound.	182 cartons	. 29	162	D e.
Ammonium, chloride, U. S. P., in cartons containing I pound. Amyl, nitrite, U. S. P., pearls of (5 drops each), in bottles of 25.	135 boxes	. 38	194 .	Do.
Argyrof, in bottles containing 1 ounce Silvol, in bottles containing 1 ounce Silver neucleinate, in bottles containing 1 ounce.	233 bottles	1.35 .86 .50	17 194 162	Chicago, St. Lou is. Do.
Protargol, N. N. R., in bottles contain-	102 bottles	1.20	17	Chicago.
ing 1 ounce. Atrophine, sulphite, U. S. P., crystals, in bottles containing 1 ounce.	17 bottles	4.40	162	St. Louis.
bottles containing 1 ounce. Balsam, Peru, U. S. P., in bottles containing 2 ounces.	256 bottles	. 67	167	Do.
Betanaphthol, U. S. P., in tins containing 4 ounces.	48 tins	. 39	162	Do.
Bismuth, subnitrate of, U.S.P., in boxes	221 boxes	1.50	107	Do.
containing 8 ounces. Bismuth, subgallate, U. S. P., in cartons containing 4 ounces.	89 cartons	. 78	107	Do.
				-941

Additional orders under 25 per cent clause of contract at contractor's option.



MEDICAL SUPPLIES—Continued.

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Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Calcium exide, powdered, U. S. P., in bottles (size to make i gallon lime water), Lilly's or	448 bottles 1	\$0.11	122	St. Louis.
equal. Calcium lactate, U. S. P., in bottles containing 8 ounces.	58 bottles	. 88	162	Do.
Camphor, U. S. P., in 1-pound tins	None 56 bottles	. 40	175	St. Louis, Omaha, Kansas City, St. Paul, San Francisco, Los Angeles, Port- land, or Scattle.
Chloretone (in lieu of veronol) in 5-grain cap- sules in bottles of 100.	116 bottles	.90	194	St. Louis.
Chioroform, U. S. P., in Dottles containing	862 bottles	.22	162	Do.
pound, securely corked. Cocaine, hydrochloride, U. S. P., in bottles	161 bottles	1.31	162	Do.
Cocaine, hydrochioride, U. S. P., in bottles containing i ounce. Collodion, flexible, U. S. P., in bottles con-	600 bottles	. 07	221	Chicago.
taining I ounce. Copper, sulphate, U. S. P., in cartons containing 8 ounces.	88 cartons	. 11	162	St. Louis.
Copper-sulphate pencils	None	. 15	156	St. Louis or any point east of the Missis-
Dover's powder, U. S. P. (powder of onlum compound), in cartons containing 8 ounces. Epinephrine, N. N. R. 1848, in bottles con-	45 cartons 1	2. 10	122	sippi River. St. Louis.
taining 1 ounce.	None			
Ether: U. S. P., in tins containing a pound Nitrous, in sealed tubes containing sufficient to make 1 plnt spirit nitrous ether, U. S. P. Ethylmorphine, hydrochloride, U. S. P. (dlomin) in bottles containing a cunce. Ergot, aseptic, in boxes of three 1 cubic-	921 tins 231 tubes	. 215 . 14	162 162	Do. Do.
Ethylmorphine, hydrochloride, U. S. P.	None			
Ergot, aseptic, in boxes of three 1 cubic-	210 boxes	. 40	170	Do.
Glycerin, U. S. P., in bottles containing 16	1,273 bottles	. 789	229	Cedar Rapids, Iowa.
ounces. Gualaçol carbonate, U. S. P., in cartons con-	None	. 		
taining 1 ounce. Homatropine, hydrobromide, U. S. P., 1	do			
grain, in tubes of 10 tablets. Ichthyol, N. N. R., in bottles containing 16	do			
ounces. Iodoform, U. S. P., in bottles containing 4	80 bottles	1. 25	107	St. Louis.
ounces. Lead, acetate, U. S. P., grazulated, pure, in cartons containing 8 ounces.	77 cartons	. 16	162	Do.
Magnesia: Carbonate, U. S. P., in packages con-	157 packages 1	. 15	122	Do.
taining 4 ounces. Sulphate, U.S.P. (Epsom salt), in strong	599 cartons	. 55	141	Do.
paper cartons containing 10 pounds. Same as above, in strong paper cartons or	50 cartons	2.28	167	Do.
boxes containing 50 pounds. Menthol, U. S. P., in bottles containing 1	257 bottles	. 25	17	Chicago.
ounce. Mercury, ammoniated, U. S. P., in cartons	148 cartons	. 575	162	St. Louis.
containing 4 ounces. Mercury with chalk, U. S. P., in cartons containing 4 ounces.	34 cartons	. 23	162	Do.
Mercury: Mild chloride, U. S. P. (calomel), in cartoxs containing 4 ounces.	115 cartons 2	. 50	237	Any point in United States on orders \$25 or over; less, f. o. b. New York.
Yellow oxide, U. S. P., in bottles con-	44 bottles	. 21	162	St. Louis.
taining 1 ounce. Milk, malted, in bottles containing 1 pound Ointment, dluted, mercurial, U. S. P. (blue ointment), in jars containing 1 pound, with	2,026 bottles 247 jars		128 162	Chicago. St. Louis.
cover. Ointment of yellow mercuric exide, ophthalmic, in tubes with small opening covered with screw cap containing a ounce.	8,505 tubes 1	. 039	122	Do.

¹Additional orders under 25 per cent clause of contract at contractor's option.

Only.

MEDICAL SUPPLIES—Continued.

Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Ointment:				
Copper citrate, N. N. R., in 1-dram collapsible tubes with smooth ends—				
b per cent	6,061 tubes 1	\$0.04	183	Norwich, New York, or Chicago.
10 per cent Zinc oxide, U. S. P., in jars containing 1	6,252 tubes ¹ 896 jars	. 0425 . 30	183 17	Do. Chicago.
Oleoresin of male fern, in bottles containing	37 bottles	. 60	17	Do.
2 ounces. Paraldehyde, U. S. P., in bottles containing	46 bottles	. 60	162	St. Louis.
4 ounces. Pancreatin, U. S. P., in 1-ounce bottles Pepsin, saccharated, N. F., in bottles con-	126 bottles 236 bottles	. 15 . 35	194 17	Do. Chicago.
taining 4 ounces. Physostigmine, salicylate, U. S. P., in tubes	None			•
containing 10 grains. Petrolatum:				•
U. S. P., in cans containing 1 pound Liquid, U. S. P., in sealed cans contain- ing 1 pound.	2,903 cans 674 cans	. 15 . 23	167 194	St. Louis. Do.
Phenol: U. S. P., crystals, in bottles containing	279 bottles	.08	162	Do.
Liquified, U. S. P., in bottles containing	409 bottles	. 325	162	Do.
8 ounces. Pituitrin, in boxes containing six 1 cubic-centimeter ampuls.	185 boxes 1	. 645	183	Norwich, New York, or Chicago.
Potassium: Acetate, U. S. P., in bottles containing 8	64 bottles	. 67	162	St. Louis.
ounces. Bitartrate, U. S. P., pure, powdered (cream of tartar), in cartons containing 1 pound.	77 cartons	.68	162	Do.
ing 1 pound. Chlorate, powdered, U. S. P., in cartons	65 cartons	. 265	162	Do.
Chlorate, powdered, U. S. P., in cartons containing a pound. Iodide, U. S. P., in bottles containing 8 ounces.	209 bottles	1.90	162	Do.
Permanganate, U. S. P., in cartons containing 1 pound.	None			
Potassium and sodium tartrate, U. S. P. (Ro- chelle salt), powdered, in cartons contain- ing 1 pound.	291 cartons	. 48	162	Da.
Quinine, sulphate, U. S. P., in cans containing 5 ounces.	None	 		
Quinine and urea-hydrochloride, U. S. P., 1 per cent, in boxes of six 5 cubic centimeter	do			
ampuls. Resordinol, U. S. P., in bottles containing 1 ounce.	36 bottles	. 4225	107	De.
Silver nitrate: Fused, U. S. P., in bottles containing 1	33 bottles	. 72	162	Do.
U. S. P., in bottles containing 1 ounce Strup of ferrous iodide, U. S. P., in bottles	64 bottles 1,383 bottles	.67 .116	162 221	Do. Chicago.
containing 4 ounces. Sirup wild cherry, U. S. P., in bottles containing 4 ounces.	10,919 bottles	. 0725	221	Do,
Sedium: Bicarbonate, U. S. P., in cartons con-	484 cartons	.08	141	St. Louis.
taining 1 pound. Borate, U. S. P. (borax), in cartons con-	230 cartons	. 1325	167	Do.
taining 1 pound. Bromide, U. S. P., in boxes containing	117 boxes	.67	17	Chicago.
1 pound. Hydroxide, U. S. P., sticks, in bottles	58 bottles	.08	162	St. Louis.
Phosphate, U. S. P., in bottles contain-	848 bottles	.08	167	Do.
Salicylate, U. S. P., powdered, in cartons	112 cartons	. 475	162	Da.
containing 8 ounces. Solution, arsenite of potassa, U. S. P. (Fowl-	148 bottles	. 12	167	Do.
Solution of hydrogen dioxide II 8 P in	1,386 bottles	. 13	162	Do.
bottles containing 16 ounces. Sulphur, washed, U. S. P., in cartons containing 1 pound.	293 cartons	. 10	141	Da.
taining 1 pound.	1	ì	i	I .

¹ Only.

MEDICAL SUPPLIES-Continued.

Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Suppositories, glycerin, U. S. P., each wrapped in tin foll, in bottles of 12, with paradimed cork.	414 bottles 1	\$0.24	122	St. Louis.
Thymol, U. S. P., in dottles containing 1	81 bottles	1.04	162	Do.
rooth powder, in screw-top tin cans con- taining \(\frac{1}{2}\) pound (formula: Precipitated chalk 4 parts, erris root 1 part, pulverised castile scap \(\frac{1}{2}\) part, oil wintergreen, q. s.). Zinc:	9,836 cans	.064	229	Cedar Rapids, Iswa.
Oxide, U. S. P., in cartons containing 8	256 cartons	.21	162	St. Louis.
ounces. Sulphate, U. S. P., in cartons containing 4 ounces.	95 cartons	.04	107	Do.
instruments.		•		
Albuminometers, Esbach's	4	. 55 . 21	130	St. Louis Moore, Pa.
Aspirators, small	9	2.50	.2	Do.
Hand. Hand (good quality), suitable for oils Bags:	295 250	. 865 . 47	100 100	Do. Do.
Emergency 2 by 2 by 12 inches approvi-	26	10.75	212	Do.
mately. Obstatrical, all leather, 18 inches long, metal frame, with four 2-counce, wide-mouth bottles; to have clamp to hold bag men when in use	6	8.00	212	Do.
Bedpans, earthenware, yellow	8144	. 75 1. 10	167	Do. Do.
2) by 12 inches	None			
4 by 17 inches Bougies, flexible, hard, assorted sizes	do	.05 .15	212 99	Da. Da.
Breast pumps. Carrier, for gause, in packing uterus. Cases, pocket	321 3 4	. 40 5. 35	212 212	Do. Do.
Hard, assorted sizes	204 517 ⁹	.04	212 213 99	Do. Do.
Catheters, irrigating, prethral and hisdder:		.55	''	-
Male . Female . Cupping glasses, with bulb, assorted sizes	21. 22. 30.	.50 .33	212 212 2	Do. Do.
Bone Uterine, sharp, irrigating, medium size Uterine, dull, frigating, medium size Dilatore uterine Goodalije.	8 7 5	1.00 1.50 1.50	212 2 2	Da. Da. Da.
Small blade	Nonedo			
Directors, grooved	None	. 10	212	Do.
Elevators, periosteal	6	1.00	212	D o.
Knapp's. Noyes, oval Forceps, hemostatic, screw lock:	19 14	1.50 1.25	212 212	De. Do.
Curved, 51-inch. Straight, 51-inch. Forceps:	58 44	. 90 . 85	2 2	Do. Do.
Dressing. Tongue.	27 7	.38 1.50	212 214	Do. San Francisco or Seat- tle.
Tissue	20 36 None	. 50 . 20	214 212	Do. St. Louis.
Veisellum, uterine Inhalers, chloroform, Esmarch's, complete with bottle.	617	1. 75 . 75	2 2	Do. Do.
Knives, operating:	32	. 75	2	Do.
Large Medium Small	32 43 40	. 75 . 75	2 2	Do. Do.

¹ Additional orders under 25 per cent clause of contract at contractor's option.

¹ Only.



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Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery
INSTRUMENTS—continued.				
Mirrors: Head, 4-inch, with steel spring (folding)	13	\$3. 25	116	Anywhere in United States.
Laryngeal, bollable, in sets of three; one mirror in the set to be 1 inch in diameter. Needles:	4 sets	1.80	116	Do.
Extra, for hypodermic syringes	693 130	. 03 . 75	212 212	St. Louis. Do.
Needle holders. Richter pattern	9 <i></i>	3. 25	212	Do.
Powder blowers, for larynx	16 28	.60 .18	213	Do. Do.
Scissors, f-inch, screw lock:	1	. 70	212	
StraightCurved	83 39	.95	212	Do. Do.
Speculums: For the ear	26	. 75	212	Do.
For the rectum For the vagina—	4	1.20	212	Do.
Graves	2	1.50 1.00	212	Do. Do.
Sphygmomanometer, aneroid	13 27 dosen 1	12.00 .45	255 122	Rochester, N. Y. St. Louis, Mo.
Sponge noiders, for throat	24	. 25	212	Do.
Sterilizers, for instruments, dressings, etc., in- cluding an alcohol vapor lamp or Bunsen burner.	3	27.00	3	Do.
Stathoscope:				_
Bowles, with bell attachment Binsural, Ford pattern	19	3. 95 2. 00	212	Do. Do.
Stomach tube and bulb, in substantial case	26 3	. 70	99	Do.
Syringes: Dental, good quality, for local anesthesia, complete.	19	1.50	2	D o.
Far glass	77	1.60	120	Do.
Hard rubber, 2-ounce. Hypodermic, Leur pattern, all glass, regular size, 30 minims, in metal case, with 2 needles.	52 114	. 57 1. 00	100 212	Do. Do.
with 2 needles. Penis, glass, cone point, in cases	555	. 085	167	De,
Penis, glass, cone point, in cases	315 3	. 67	99	Do.
2-quart, enameled metal water holder.	118	1.40	2	Do.
with rubber tubing, complete. Rectal, soft-rubber bulb, for infants	630 s	. 09	99	Do.
Tenaculums, uterine	5	. 25	212	Do.
Tongue depressors: Metal Wood, one piece	16	. 25 . 015	212 92	Do. New York, N. Y.
Wood, one piece. Tooth-extracting sets, in substantial case Tourniquets, field	2,976 None			· ·
Trocars, with Capitia	10	. 32 1. 00	99	St. Louis. Do.
Tubes, rectal, of soft rubber, for high enema. of good quality.	89 1	.18	99	Do.
Urinometers, Doremus, with pipette	13	.35	2	Do.
Uterine dressing forceps, Emmet's	5	. 75 1. 25	2 2	Do. Do.
Uterine sounds, Sim's		. 35 . 02	2 214	Do. San Francisco er Seat-
SURGICAL DRESSINGS, ETC.				tie.
•				
Bags, hot-water: Rubber, 2-quart, for hospitals Rubber, 2-quart, for field use among Indians.	None	. 57	100	St. Louis.
Aluminum, 2-quart, for hospitals Heavy tin, 2-quart, for hospitals	None	1.25	2	Do.
Bags, ice: Screw-capped, cloth-covered, 9-inch, for	1144	. 34	100	Do.
hospitals. Screw-capped, eloth-covered, for field use among Indians.	1144	.41 .41	2 2	Do. Do.
Bandages, gauze:	0.500			.
2 inches wide, 10 yards long	1,95° dozen	1.15 1.39	122	Do. Do.
a manage wheel to have tombe trees.				

¹ Additional orders under 25 per cent clause of contract at contractor's option. ² Only. ³ Per dozen.

Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery
SURGICAL DRESSINGS, ETC.—continued.				
Bandages, plaster of Paris:		ĺ		
14 inches by 5 yards	34 dozen 85 dozen 75 dozen	1.45	13 13 13	Chicago. Do. Do.
Bandages, woven, elastic: 2i inches by 3 yards, stretched 2j inches by 5 yards, stretched Bandages, suspensory	151 167 None	.745	2 2	St. Louis. Do.
Cotton, absorbent, in cartons containing: One-fourth pound (for general use) I pound (for general use) Cotton, surgeon's nonabsorbent, in cartons,	2,142 pounds	. 52 . 46	13 13	Chicago. Do.
containing one-half pound. Cotton wadding	do			
Finger cots, rubber, 1 dosen in a box	199 boxes	.10	214	San Francisco or Seat tle.
Gauze, borated, in paper cartons, in 1-yard lengths.	Nome	i		
Gauze, iodoform; 1-yard lengths, in glass con- tainers.	do	·····		
Gauze, sterilized, plain, in packages of 25 yards Gauze, unsterilized, plain, in packages of 25 yards.	25,391 yards 12,502 yards	1 2. 10 1 2. 00	2 2	St. Louis. Do.
Ligature: Catgut, plain, in glass tubes; one 20-inch strand in each tube; sizes, 0, 1, and 2, as may be required.	913 tubes	.05	1241	United States.
Catgut, 10-day chromicized, in glass tubes; one 20-inch strand in each tube:	881 tubes	.05	194}	Do.
sizes, 0, 1, and 2, as may be required. Umbilical tape, linen, in glass tubes; two	None		 	
9-inch tapes in each tube. Silk, wound on cards containing about	224 cards	. 05	212	St. Louis.
A ounce. Silkworm gut, two sizes, fine and medium,	123 cases	.38	212	Do.
in slides of 25 in case. Silver wire Lint, absorbent, in cartons containing 1 ounce.	14 ounces None	1.25	212	Do.
Ofled silk, opaque, 30 inches wide: In 1-yard rolls	141 yards 2	.84	160	New York
In 5-yard rolls	229 yards 3 24	.77	160 100	Do. St. Louis.
24 by 44 inches. Pencils, hair (assorted sizes), in vials Plaster:	None	ļ	 	
Belladonna, 1 vard in a tin	451 yards	.48	13	Chicago.
Cantharidis, 1 yard in a tin	697 yards	.18	13	Do.
Porous Zinc oxide, adhesive, surgeon's, on spools,	701 dozen	.58	13	Do. Do.
1 inch wide, 10 yards long. Zinc oxide, adhesive, surgeon's, on spools,	1,065 spools	1	13	Do.
2 inches wide, 10 yards long. Zinc oxide, adhesive, surgeon's, en spools,	856 spools	ŀ	18	Do.
3 inches wide, 10 yards long. Rubber sheeting:	010 8-			St. Yt-
Marcon, double-coated, 1½ yards wide, good quality. White, double-coated, 1½ yards wide,	312 yards		100	St. Louis. Do.
good quality. Tubes, rubber drainage, Nos. 1, 2, and 3.	293 yards	1	2	Do.
Tubing, rubber:	l	l	100	Do.
inch	473 yards	.07	100	Da.
disinyectants.				
Liquor cresolis compound, U. S. P., in bottles containing 16 ounces.	1,741 bottles*	.22	122	De.
Calcium hypochlorite (bleaching powder), in 5-pound containers, noncorrosive metal; shall contain not less than 30 per cent available chlorine (both names to appear on label).	None			
Solution, formaldehyde, 40 per cent solution: In bottles containing 32 ounces In kegs containing 5 gallons Sulphur, in rolls (large pieces, not crushed)	48 kegs *	11.20	160 160	New York. Do.

Per package. Additional quantities under 25 per cent clause o contract at contractor's option.

Article.	Quantity awarded.	Unit price.	No. of con- trao- tor.	Point of delivery.
HOSPITAL STORES.				
Capelcum, powdered, in bottles containing 1 pound.	27 bottles	\$ 0. 4 8	237	Any point in United States if orders ex- ceed \$25. Smaller orders f. o. b. New
Flaxseed meal, in tins containing 5 pounds (crushed seed, not cakes). Gelatin, Silver Label or equal	914 pounds	. 15	167	York. St. Lou <u>is</u> .
Ginger, powdered, in cartons containing 1 pound.	None	. 24	167	Do.
Soap, for medicinal use, in cakes	1,928 pounds 1		160	New Yerk
Castile, white, in cakes	None 763 pounds	. 298	246	Do.
miscellaneous.				
Bags, paper:pound capacitypound capacity Basins, pus, medium size, enameled ware Bedbug destroyer, in tin cans containing 16 sunces.	533 hundred 1 323 hundred 1 Nonedo	. 12 . 16	160 160	Do. Do.
Boxes: - Ointment, impervious	1,966 dozen 3	. 17	130	Moore, Pa.
Powder	1,133 dozen	.09 .08 .07	167	St. Louis.
Brushes, nail or hand, good grade, for surgical	563	.15	2	D ₆ ,
use. Cases, medicine, buggy Capsules, gelatin, assorted, Nos. 0 to 4 (number of capsules to the box should be specified).	Nonedo			
Chairs, operating. Cork pressers. Corks, valvet, best, sizes Nos. 1 to 10 (specify price on each size). If 1XX.	do	.14		
11 2XX 11 3XX 11 4XX 11 6XX 11 6XX 11 6XX 11 6XX 11 8XX 11 8XX			135	Do.
If 10XX Cupe, sputum, paper Holders, metal, with cover, to hold paper			92	New York.
putum cups. Dispensatory, United States, cloth (latest	3	10. 80	167	St. Louis.
edition). Droppers, medicine.	19,188	.01	214	San Francisco or Seat- tle.
Envelopes, drug, medium size, by the 100	None	2. 50 . 20 . 0825	167 167 121	St. Louis. Do. Chicago.
Homes	19 2	. 15	121	Do.
Labels, blank, prescription, gummed, without any printing: 1 by 2 inches. 2 by 3 inches. 3 by 4 inches. Measures, graduated, glass:	Nonedododo			
Sounce. 4-ounce. Minim Medicine glasses, ½-ounce, graduated. Mortars and pesties: Wedgewood.5-inch	24	.30 .28	167 167 2 2	St. Louis. Do. Do. Do.
Mortars and pesties: Wedgewood, 5-inch Glass, 4-inch	8 18	.88	167 167	Do. Do.

¹ Additional quantities under 25 per cent clause of contract at contractor's option.

:Only



, Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
miscellaneous—continued.				
Papers: Blue and white, 4½ by 6 inches, for seidlits powder.	None			
Filtering, round, gray, 10-inch	48 packages 61 boxes	.15	167 212	St. Louis, Do.
Papers, powder, 24 by 31 inches	Nonedo			_
		lf .84	1	Do.
Pill boxes, paper, in boxes of 1 gross	_	1 1 AR	167	De.
Pill tiles, 8-inch, graduated	14	10.75	212 213	De. De. De.
Scales and weights, prescription	Nome		3	D ₀ .
Spatules: 3-inch 6-inch Spirit lamps Stifts, of moderate price, for making distilled	35 ¹	. 35 . 22	121 121 2	Chicago. Do. St. Louis. Do.
water, 1-gallon size. Tables, operating		8.50 82.50	2	Do.
Test tubes, 5-inch	45 dosen	.106	214	San Francisco or Seas- tle.
Thermometers, clinical, Fahrenheit, with certificate and case.			2	St. Louis.
Tubes, glass, drinking, assorted sizes Twine, wrapping, cotton Vials:	None	1.20	2	Do.
-ounce 1-ounce 2-ounce	1,579 dozen 3 3,062 dozen 3	.16	135 135 135	Do. Do. Do.
4-ounce 6-ounce	2,395 dozen *	. 25	135 135	Do. Do.

SCHOOLBOOKS, SCHOOL DESKS, ETC. - [Bids opened in Chicago Apr. 15, 1918.] SCHOOLBOOKS AND SUPPLIES.

CHARTS.				
The North American Bird and Nature Study Chart.—John C. Montjoy.	None	• • • • • • • • • • • • • • • • • • • •		
The Elson-Runkel Reading Chart	10 None	\$2.40	1	Chicago.
Wooster's Industrial Reading Chart	do	•••••		
Wooster's Word Cards	29 dozen	. 50	i	D o.
Primers.				
Elson-Runkel Primer	778	.27 .44	- 1	Do. Do.
Supplementary equipment for Elson-Runkel books:			1	
I (Primer), 20 outline pictures	70 sets	. 20 . 35	1	Do. Do.
cards. III (Primer), 308 words in primer	15 sets	1.10	ı	Do.
Summer's	18	. 30	i	Do. Do.
Paimer Method Primer	700	.24	192 1	Do.
Aldine, Spaulding and Bryce	442 300	.30 .24	129	Do. Riverside Press, Cam-
FOR ADULT BEGINNERS.				bridge, Mass.
First Book for Non-English Speaking People,	149	.21	118	Chicago.
Harrington. Second Book for Non-English Speaking		.24	118	Do.
People, Harrington. Language Lessons to Accompany First Book,		.21	118	Da.
Harrington.	*		1 113	1

¹ Only. ² Original standard packages. No printing or repacking.

Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
READERS.				
lew Education Readers, Book 1, Demarest &	417	\$0.28	4	Chicago.
Van Sickle. erception Cards for Book 1, Demarest & Van	14 sets	1.60	4	Do.
Sickle. New Education Readers, Book 2, Demarest &	328	. 28	4	Do.
Van Sickle. erception Cards for Book 2, Demarest & Van	12 sets	. 60	4	Do.
Sickle. New Education Readers, Book 3, Demarest &	236	. 32	4	Do.
Van Sickle. Iew Education Readers, Book 4, Demarest &	138	. 36	4	Do.
Van Sickle. Ison Primary Reader:				70-
Book 1 Book II	925 813	. 28 . 35	1	Do. Do.
upplementary equipment for Elson-Runkel Books:				_
VI (Book I), 91 letter and phonogram cards.	42 sets	. 45	1	Do.
VII (Book I), word cards, 240 words VIII (Book II), 60 letter and phonogram cards.	44 sets 20 sets	. 80 . 81	1	Do. Do.
Ison Primary Reader: Book III. Book IV.	646 529		1 1	Do. Do.
lson Grammar School Reader: Book 1	327		1	Do.
Book 2. Book 3.	226 163		1	Do. Do.
Book 4. raded Classics, Haliburton & Norvell:	84	. 50	1	De.
Second Reader	177 126		1	Do. Do.
Third Reader Fourth Reader	132 73	. 34 . 37	1 1	Do. Do.
Fifth Reader	21		1	Do
FirstSecond	492	. 23 . 27	1	Do. Do.
ThirdFourth	358 85	. 32 . 40	1 1	Do. Do.
Fifth rogressive Road to Reading:	26	. 48	1	Do.
Book 1, BurchillBook 2. Burchill	146 122	. 29 . 34	230 230	New York. Do.
Book 2, Burchill Book 3, Introductory, Burchill Book 3, Burchill	55	. 36	230 230	Do. Do.
Book 3, Burchill Book 4, Burchili	15	. 39 . 44	230	Do.
liverside Readers, Sickle and Seegmiller: First	247	. 28	129	Riverside Press, Car bridge, Mass.
SecondThird	238 307	.32 .40	129 129	Do. Do.
Fourth	ZZ5	. 44	129	Do.
Fifth	167 113	.44	129	Do. Do.
Seventh	84	. 44	129	Do.
Eighth	60	. 48	129	Do.
Manual for teachers	3	. 51	20	Chicago, III.
First reader Second reader Sec	297 188	.30	li	Do. Do.
Third reader	242	. 43	20	Do.
Fifth reader	45	. 45 . 45	20	De. De.
SPELLING. New World Speller, Wohlfarth & Rogers:			1	
Grades 1 and 2	501	. 25	1	Do.
Grades 5, 4, and 5	1215 672	.20 .20	1 1	Do. Do.
New World Speller, Wohlfarth & Rogers: Grades 1 and 2. Grades 3, 4, and 5. Grades 6, 7, and 8. Spelling book, Balley-Manly: Part I	64	128	129	Riverside Press Car
_ a	••••••		129	bridge, Mass.
Part II	δ ^γ	. 16	129	Chicago, Ili

Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
GEOGRAPHY.	•			
Home Geography, Frye	712 332 76	\$0. 29 . 52 1. 00	96 96 96	Chicago. Do. Do.
	448 157	.511	1	Do.
Second book	157	.88	1 1	Do. Do.
Second book Elementary Geography, Dodge. Advanced Geography, Dodge.	108 18	.95	i	Do
PHYSIOLOGY AND HYGIENE. Primer of Hygiene, Ritchie and Caldwell	486	. 40	1	Do.
Primer of Sanitation, fifth and sixth grades, Ritchie.	108	.46	1	Do.
Primer of Physiology, Ritchie	782 232	. 55 . 79	1	Do. Do.
Human Body and Health, Davison:	105	.82	ا 4	Do.
ElementaryIntermediate	59	.40	1	Do.
Advanced. Elements of Physiology and Sanitation, Rett- ger.	59 None 2	. 75	12	New York.
Dictionaries, webster.		}		
Elementary School Dictionary Secondary School Dictionary New International Dictionary	620. 181. None.	. 72 1. 20	4	Chicago, III. Do.
AGRICULTURE.				a
Beginner's Guide to Fruit Growing, Waugh Chemistry of Plant and Animal Life, Snyder. Diseases of Economic Plants, Stevens and Hall.	45 54 73	1. 20 1. 60	272 159 159	St. Paul. New York. Do.
Feeding of Animals, Jordan Field Crops, Wilson and Warburton Fruit Harvesting, Storing, and Marketing,	30 46 31	1.40 1.12 .70	159 272 272	Do. St. Paul. Do.
Waugh. Insects and Insecticides, Weed	51	1.05	272	Do.
Farm Management, Warren	33	1.40	159	New York.
Farm Management, Warren. Practical Course in Botany, Andrews. Physics of the Household, Lynde.	33. 178. 35.	1.00	1 .4	Chicago, Ill. New York.
rnysics of the Household, Lynde Productive Ferming Davis	81	1.00	159 151	Chicago, Ill.
Soils and Soil Fertility, Whitson and Walston.	90	. 93	272	Chicago, Ill. St. Paul.
Productive Farming, Davis. Solis and Soil Fertility, Whitson and Walston. School Agriculture, Wood. Types and Breeds of Farm Animals, Plumb. Berinner, Botany, Ballar	61	. 67	272	μο,
Types and Breeds of Farm Animals, Plumb.	30	1.60	96 159	Chicago. New York.
Beginner's Botany, Bailey Chemistry of Farm and Home, Tottingham and Ince.	30. 56. 26.	.48	272	St. Paul.
Chemistry in the Home, Weed	2	.96	4	Chicago.
LANGUAGE AND GEAMMAR.	040			Do.
Primary Language Lessons, Serl	948	. 28	1 1	Do.
Modern English Grammar and Composition, Buehler.	579	.65	Î ne	Do.
Elements of Business Law, Huffcut	65 66	.90 .40	96	Do. Do.
Aldine Language Method Manual for Teachers using First Language Book, Spaulding and Bryce.	4	.50	1	Do.
Aldine Second Language Book, Spaulding and Bryce.	53	. 45	1	De.
Aldine Language Method Manual for Teach-	2	.50	1	Do.
and Bryce. Lenguage Work for the Second Year, O'Shea-Elchman. Compacting Rock by Grades O'Shea-Fish	160	.24	168	New York.
Composition Book by Grades, O'Shea-Eichman:			1	
Third year Fourth year	32 66	. 24	168	Do.
Fifth year	62	. 24	168 168	Do. Do.
Sixth year	62 50	. 24	168	Do.
Seventh year	63	27	168	Do.
Fifth year Sixth year Seventh year Righth year Righth year The Business Letter, Dwyer	85	.27	168 129	Do. Riverside Press, Can
	v	۰.۷۵	الحمد ا	bridge, Mass.

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Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
ARITHMETIC.				
Every Day Arithmetic, Hoyt & Peet: Book I	1,500	\$0.32	129	Riverside Press, Cam-
	1 '	.32	129	bridge, Mass. Do.
Book II	349. 1,224. 17.	. 36 . 28 . 60	129 129 272	Do. Do. St. Paul, Minn.
No. II	256 263	.08	4	Chicago, III. Do.
No. III Durell's Arithmetic:	·	.12	4	Do.
Book 1, Part I. Book 2.	311	. 24 . 34	168 168	New York. Do.
Book 2	347 212 51	. 51 . 54	168 168	Do. Do.
Book 3	8	.74	1	Chicago, Ill. St. Paul, Minn.
Farm Arithmetic, Burkett & Swartzell	9	. 60 . 45	272 118	Chicago, III.
Rural Arithmetic, A, Madden & Turner	22	.52	129	Riverside Press, Cam- bridge, Mass. Chicago, Ill.
Rural Arithmetic, Caliee	36 32 dozen 2	. 24 . 48 . 80	96 1 96	Chicago, Ill. Do. Do.
ridge-Merserean-Moore. Vocational Algebra, Wentworth & Smith	32	. 40	96	Do.
UNITED STATES HISTORY.			!	
Mace's History Reader: Book I	487	. 271	,	Do.
Book II	282	.27	Ī	Do.
Book III Primary History of United States, McMaster.	403 189	.48	1 4	Do. Do.
Primary History of United States, McMaster Brief History of United States, McMaster First Steps in the History of the United States, Mowry.	138 56	.80 .50	1	Do. Do.
Recentials of United States History Mowry	65	.80	230	New York.
Elementary American History, Montgomery.	362 147	. 48 . 60	96 96	Chicago, III.
Beginner's American History, Montgomery. Elementary American History, Montgomery. Brief History of South Dakota, Robinson. The Story of Our Country, Elson & Mac-	1	.48	•	Do.
Mullan: Book 1	69	. 53	,	Do.
Book 2	29	.56	Ī	Do.
School History of the United States, Mace School History of the United States, Mc- Master.	75	.80 .80	208 4	Do. Do.
Master. Leading Facts of American History, Mont- gomery.	10 ¹	. 65 . 80	196 96	Topeka, Kans. Chicago, Ill.
CIVIL GOVERNMENT.	1		"	
Community Civics, Field & Nearing	None	.80	4	Do.
How the People Rule, Hoxie	234 494 198 159	.36	230	Do. New York. Chicago, Ill.
Essentials in Civil Government, Forman	159	.48	4	Do.
How We Are Governed, Dawes Parliamentary Law, Paul	10	.80 .60	96 41	Do. New York.
SINGING.				
Carmina for Social Worship, Turner	None			_
Carmina for Social Worship, Turner	None	. 48 . 54	230 12	Do. Do.
Abridged Academy Song Book, Levermore	124	.60	96	Chicago, III.
Bongs Every One Should Know, Johnson	3 ¹	. 35 . 40	196 4	Topeka, Kans Chicago, III.
MUSIC INSTRUCTION.				
Natural Music Course, Ripley & Tapper:	140	.24	4	Do.
Harmonic Primer Harmonic First Reader	51	.24	4	Do.
Harmonic Second Reader Harmonic Third Reader Harmonic Fourth Reader	51. 47. 46.	. 28 . 32	4	Do. Do.
Harmonic Fourth Reader	1	. 32	1	Do. Do.
Harmonic Fifth Reader. Music in the Grades (Manual for Teachers)	6	12	1	De.

¹ Only.

Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
MUSIC INSTRUCTION—continued.				
Zuchtmann's American Music System:			١.	
Book 1	81	\$0.32	1	Chicago, Ill.
Book 2 Book 3	51	.38 .42	1 1	Do. Do.
Book 4	1	. 42	1	Do.
Teacher's Manual	3	.79	1	Do.
DRAWING.				
Blackboard Sketching, Whitney Constructive Work for Schools Without Special Equipment, Newell.	42 13	. 48 . 95	172 1	New York or Chicago. Chicago, Ill.
Drawing paper, 8 by 11, 100 sheets in pack Mechanical Drawing and Practical Drafting, Sampson.	3,278 packages1 24	. 1676 1. 20	78 172	Do. New York or Chicago.
Anthony's Technical Drawing Series:			_	
Anthony's Mechanical Drawing Daniel's Freehand Lettering Prang's Progressive Drawing Books:	17.* 22.	1.28 .96	1	Chicago, Ill. Do.
Teacher's Outline Book	dozen	2.40	1	Do.
Book 1	31 dozen 13 dozen	1.44 1.44	1 1	Do. Do.
Book 3	12 dozen	1.44	·i	Do.
Rook 4			1 1	Do.
Book 5Book 6	127 dozen	1.80	1 1	Do. Do.
Book 7	12 dozen 94 dozen None			
Book 8 The Prang Elementary Course in Art In-	do			
struction: Manual for Teachers—		 		
First year	10		1	Do.
Second yearThird year	8	. 75 . 75	1	Do. Do.
Fourth year	1	1 75	l i	Do.
Fifth year	2	. 75	1	Do.
Fifth year. Sixth year Seventh year.	None	.75	1	Do.
Eighth year. Prang's set color box, No. 1 (or equal)	do	l		_
Prang's set color box, No. 1 (or equal) Applied Arts Drawing Books, Seegmiller: First year—	1,769 1	2.085	65	Do.
Autumn	233	.08	1	Do.
Spring Second year—	197	.08	1	Do.
Autumn	200	.08	1	Do.
Spring Third year—	212	.08	1	Do.
Autumn Spring	123	.08 .08	1 1	Do. Do.
Fourth year—	***************************************		1 1	
Autum	94 100	.08	1	Do. Do.
Fifth year— Autumn Spring	46	.12	1	Do. Do.
Sixth year—	46	. 12	1	
Autumn Spring	40	.12	1	Do. Do.
Seventh weer-	1	ı	1	,
Autumn	Nonedo			
Eighth year-		(l	
Autumn Spring	do			
PENMANSHIP.		1	1	
Birch Sectional Writing Chart, consisting of: 1 metal wall holder, 36 inches long by 8½ inches wide; 1 alphabet, caps, comma, peri- od; 1 alphabet, small letters, including dollar and percentage signs and digits; 1 manual of Course of Study for Teachers; 3 landlinet with angle 8, with 18 feebers	11 sets	5. 20	266	Ď o .
dollar and percentage signs and digits; I manual of Course of Study for Teachers: 3				•
large illustration cards, 8 by 18 inches. Extra holders, 36 by 8; inches, metal, for above chart.	11	1.50	266	Do.

2"Devoe" set color box No. 22 awarded.

¹ Only.

		1		
, Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
PENMANSHIP—continued.				
Extra alphabet, caps, for above chart Extra alphabet, small, including digits, etc.,	Nonedo			•
for above chart. Extra manuals and set of 3 illustration cards for above chart.	do			
Steadman's Graded Lessons in Writing, Nos. 1 to 8 (in pads).	134 dozen		1	Chicago, III.
Steadman's Business Forms (in pads) Steadman's Writing Chart (in sets of 5 sheets). Writing Lessons for Primary Grades 1 and 2,	7 dozen 1 set 46 dozen	1.20	192	Do. Do. Do.
Palmer. Palmer's Method of Business Writing, Grades 3 to 8.	65 dozen	1 1.20 2 1.92 8 1.92	1 1 192	Do. Do. Do.
SUPPLEMENTARY AND LIBRARY BOOKS.		1.02	102	24.
Bow-Wow and Mew-Mew, Craile The Cat That Was Lonesome, Chadwick-	Nonedo			
Freeman	do			
The Woman and Her Pig, Chadwick-Freeman The Mouse That Lost Her Tail, Chadwick- Freeman	do		1	_
Dramatic First Reader, Cyr	34 32	. 24 . 30 . 32	96 1 230	Do. Do. New York.
Mother Goose Reader, Mickens Little Nature Studies, Vol. I, Burt. Nature's Byways, Ford. Nature Stories for Young Readers, Bass:	4	.20	96 230	Chicago. New York.
Nature Stories for Young Readers, Bass: Plants Animals	6	.30	118 118	Chicago
Reader for Primary Grades, Holbrook In Fableland, Seri	None	.28	1	Do.
Oriole Stories, Lane	16 None	. 22 . 20	96 4	D o. D o.
Reynard the Fox, Smythe Little Plays for Little People, Noyes	10	. 24 . 28	96	Do. Do.
Plants Animals Reader for Primary Grades, Holbrook In Fableland, Serl. Oriole Stories, Lane. Stories for Children, Lane. Polly and Dolly, Blaisedell. Reynard the Fox, Smythe Little Plays for Little People, Noyes Little Drams, Skinner and Lawrence. Fishing and Hunting (Children of Many Lands), Dutton. Indian Primer, Fox.	5	.24	4	Do. Do.
Indian Primer, Fox Stories of Red Children, Brooks. Around the World, Book 1, Tolman. Merry Animal Tales, Bigham Geographical Nature Studies, Payne. Humane Education, Book 1 (first pagt only),	2 5	. 20 . 29	20	Do. Do.
Merry Animal Tales, Bigham	2241	.32 .43 .20	230 20 4	New York. Chicago, Ill. Do.
rage.		l	ī	Do.
In the Animal World (in color), Serl Peter and Polly, Lucia Nature Studies Primary Grades, Cummines	11 4 5	. 34 . 28 . 72	20 4 .4	Do. Do. Do.
Peter and Polly, Lucia. Nature Studies, Primary Grades, Cummings. Fanciul Flower Tales, Bigham. Five Little Strangers, Schwartz.	None		20	Do.
Great Americans for Little Americans, Eggleston. Harmon B. Nivers:	66	.32	4	Do.
Geographical Readers— Book I	52	. 25	1	Do.
Book II	16 10	. 25 . 32	1 129	Do. Riverside Press, Can
Home Geography for Primary Pupils, Fairbanks.	37	. 50	1	bridge, Mass. Chicago.
Around the World, Book 2, Tolman	78 3	. 36 . 28	230 4	New York. Chicago.
Barbara's Philippine Journey Burks Ethics of Success, Book 1, Thayer	None	. 50	1	Dq.
Lands), Dutton. Barbara's Philippine Journey Burks. Ethics of Success, Book 1, Thayer. Animal Fables, Stafford. Book of Nature Myths, Holbrook. Book of Fables and Folk Stories, Scudder. Dramatic Stories. Skinner.	19 Nonedo	. 24	4	Do.
		. 28		Do.
4 23 doze n.	32 dozen.		• 33 0	ozen.

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Article.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
SUPPLEMENTARY AND LIBRARY BOOKS—con.				
Fairy Tales for Little Readers, Burke	None			
Fairy Stories and Fables, Baldwin	do			
Old Indian Legends, Zit-ka-la-Za	12	\$0.40	96	Chicago.
Bunny Brighteyes Smith	12	.23	20 20	Do. Do.
Party Stories and Fables, Baldwin Legends of the Red Children, Fratt Old Indian Legends, Zit-ka-la-Za Bunnyboy and Grizzly Beer, Smith Bunny Brighteyes, Smith The Tale of Bunny Cottontail, Smith A Boy on a Farm, Abbott Animals at Home, Bartlett Farm Life Reader, Book IV, Duncan, Evans & Duncan	21	.23	20	Do.
A Boy on a Farm, Abbott	7	.36	4	Do. Do.
Farm Life Reader, Book IV, Duncan, Evans	67	.40	230	New York.
			230	Do
The Blue Bird, for Children, Maeterlinck First Book of Birds, Miller	13 3	.48	129	Do. Riverside Press, Cam-
				bridge, Mass.
Stories of Humble Friends, Pyle	1	1 .40	. 1	Chicago. Do.
Some Useful Animals, Monteith	2	-40	4	Do.
Retty in Canada, McDonald, mehool adition	8	.32	20	Do. Do.
Manuel in Mexico, McDonald, school edition.	4	.39	20 20	Do.
Humane Education, Book 2, Page	4	.39	20	Do.
Donald in Scotland, McDonald, school edi-	5	. 39	20	Do.
The Story of Two Boys, Johnson	4	.28	4	Do.
Founders of Our Country, Coe	6	.40	4	Do.
Children of History, Early Times, Hancock	5	.28	4	Do.
Docas, the Indian Boy, Snedden	7	.36	118	Do.
Bryant Longiellow) Cody	3	-40	4	Do.
tion. The Story of Two Boys, Johnson. Founders of Our Country, Coe. Fifty Famous People, Baldwin. Children of History, Early Times, Hancock. Docsa, the Indian Boy, Snedden. Four American Poets (Whittier, Holmes, Bryant, Longiellow), Cody. The Farmer and His Friends, Tappan.	17	-40	129	Riverside Press, Cam- bridge, Mass.
Among the Giants, Neher Fifty Famous Stories, Baldwin Ethics of Success, Book 2, Thayer Around the World, Book 3, Tolman Our Own Country, Book III, Smith Stories of American Life and Adventure,	Nonedo			Dridge, mass.
Fifty Famous Stories, Baldwin	do		230	New York,
Around the World, Book 3, Tolman	49		230	Do.
Our Own Country, Book III, Smith	37	.42	230	Do.
		J	4	Chicago.
Tad and His Father, Bullard	32	.45 .48	20	Do. Do.
Cummings. Farm Life Reader, Book V, Duncan, Evans	25	l .	230	New York.
& Duncan.	E			Chicago,
Grasshopper Green's Garden, Schwarzs. Grasshopper Green's Garden, Schwarzs. Little Brothers to the Bear, Long. Nature Studies on the Farm, Keffer. Our Birds and Their Nestlings, Walker. Plants and Their Children, Dana. Squirrels and Other Fur. Bearer Burroughs.	4	.40	20 96	Do.
Nature Studies on the Farm, Keffer	1	.32	4	Do.
Plants and Their Nestlings, Walker	1	.48	4	Do. Do.
Squirrels and Other Fur-Bearers, Burroughs	5	.48	129	Riverside Press, Cam-
Trail to the Woods, Hawkes	6	.32	4	bridge, Mass. Chicago.
Trail to the Woods, Hawkes	2	1.05	1	Do.
True Bird Stories, Miller	6	-48	129	Riverside Press, Cam-
Wilderness Babies	4	.46	1	bridge, Mass. Chicago.
Wilderness Bables	6	.48	129	Riverside Press, Cam-
American Indians, Starr	4	.38	118	bridge, Mass. Chicago.
American Indians, Starr Abraham Lincoln, Baldwin	5	- 40	4	Do.
Four American Explorers, Beebe	5 3	· 40 · 48	4	Do. Do.
Morse, Edison), Perry. Around the World, Book 4, Tolman. Four American Indians (King Philip, Pontiac, Osceola, Tecumseh), Whitney and	ļ.			
Four American Indians (King Philip Pon-	29	.40	230	New York. Chicago.
tiac, Osceola, Tecumseh), Whitney and		. 40	1	
Perry.	None			
Indian History for Young Folks, Drake Four Great Americans (Washington, Frank-	1 6	.40	4	Do.
Great Inventions and Discoveries Piercy	7	.37	168	New York.
Ethics of Success, Book 3, Thayer	4	.48	230	l Do.
Ethics of Success, Book 3, Thayer. Four American Pioneers, Perry and Beebe. Life of Lincoln for Boys, Sparhawk.	3	.40	243	Chicago. Within United States.
rdie di l'incom for Dolas, Sparnawk	0	.74	243	MINTER OFFICE DESIGNATION

SCHOOLBOOKS, SCHOOL DESKS, ETC.—Continued.

SCHOOLBOOKS AND SUPPLIES—Continued.

Birds and Bees, Burroughs		-			
Children of History, Later Times, Hancock Choice Literature, Book 1, Intermediate, None	Article.			con-	Point of delivery.
Choice Literature, Book Intermediate, Williams, Smoky Day's Wigwam Evenings, Eastman. 6	SUPPLEMENTARY AND LIBRARY BOOKS-con.				
Williams	Children of History, Later Times, Hancock Choice Literature, Book 1, Intermediate,	3 None	\$ 0.46	1	Chicago.
grades), Houghton, Mifflin Co. (At and higher grades), O'Neill. (At a proper section of the Louiss Alevit Story Book. (At a proper section of the Louiss Alevit Alevit Story Book. (At a proper section of the Louiss Alevit Alevit Story Book. (At a proper section of the Louiss Alevit Alevit Story Book. (At a proper section of the Louiss Alevit Alevit Story Book. (At a proper section of the Louiss Alevit Alevit Story Book. (At a proper section of the Louiss Alevit Alevit Story Book. (At a proper section	Williams. Smoky Day's Wigwam Evenings, Eastman	6 None	. 43	20	Do.
Do. Do. Do. New York Do. New York Do.	grades), Houghton, Mifflin Co. Recitations for Assembly and Class Rooms (5th and higher grades), O'Neill.		.88	159	New York.
Do. Do. Do. New York Do. New York Do.	The Louisa Alcott Story Book Firebrands, Martin and Dayls	35			Chicago. Do.
Do. Do. Do. New York Do. New York Do.	Marta in Holland, McDonald, school edition	7		20	Do.
Four American Patriots (Henry, Hamilton, Jackson, Grant), Burton. Pour American Naval Heroes (Perry, Paul Jones, Farragut, Dewey), Bebe.	Fritz in Germany, McDonald, school edition.	3	.39	20	Do.
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Four American Patriots (Henry, Hamilton, Jackson, Grant), Burton. Pour American Naval Heroes (Perry, Paul Jones, Farragut, Dewey), Bebe.	How We Travel, Chamberlain	11	.36	159	Do.
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Fletcher		4	.40	4	Do.
Fletcher	Four American Naval Heroes (Perry, Paul Jones, Farragut, Dewey), Beebe.	5	1		
Fletcher	Indian Boyhood, Eastman	5			
Whitehead. Stories from British History, Bevan. 3. 46 1 Do.	Fletcher.	2	1.23	243	Within United States.
McMurray	Whitehead	_	l	80	, -
Stories from Lie, Marden Stories from Lie, Marchan S	Around the World, Book 5, Tolman Ploneers of Rocky Mountains and the West,	None	.48	230	
Stories from Lie, Marden Stories from Lie, Marchan S	Pioneers of Land and Sea, McMurray	do			De
The Wonderful House that Jack Has, Millard Fig. Stories from Life, Marden		. 36		Chicago.	
Choice Literature, Book 2, Intermediate, Williams. Hans Brinker, Dodge	The Wonderful House that Jack Has, Millard.	7	.40		New York.
December Colette in France, McDonald, school edition. Society in Spain, McDonald, States, McDonald, school edition. Society in Spain, McDonald, States, Rusmisel. Society in Spain, McDonald, Scates, Rusmisel. Society in Spain, McDonald, Scates, Rusmisel. Society in Spain, McDonald, Scates, McDonald, Scates, Rusmisel. Society in Spain, McDonald, Scates	liams.	None			Cincago.
Colette in France, McDonald, school edition 5 39 20 Do.	Hans Brinker, Dodge	31	.48	4	Do.
Cummings	Colette in France, McDonald, school edition	5	.39	20	Do.
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Birds and Bees, Burroughs	Nature Studies, Higher Grammar Grades.	1	.60		
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Summer, Sharp		43 2			
The Fall of the Year, Sharp 3	The Spring of the Year, Sharp	1	1		Riverside Press, Caga- bridge, Mass.
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12	Commercial and Industrial Geography of the	108	. 80	`96	1
Industrial Commercial Geography of United States, Niem	GACOTADDICAL KARCAT, PULCODA CATDADIAT	. 12	. 56	4	
Industrial Commercial Geography of United States, Niem	How the World is Clothed. Carpenter	2	. 48		Do.
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Umé San in Japan, McDonald, school edition, 2	Chandra in India, McDonald, school edition.	4	. 39		Do.
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Lincoln). No. 2 (Garfield, McKinley, Cleveland,	None.	1		
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liams. Little Women, Alcott Little Men, Alcott Little Men, Alcott Lits. Wiggs of the Cabbage Patch, Hegan-Rice. Two Arrows, Stoddard loe's Boys, Alcott Man Without a Country, Hale Robinson Crusce, De Foe. Daniel Webster for Young Americans, Richardson.	6 5	.94	20	Do.
Little Men, Alcott	5	. 94 . 75	20 20 20 20 20 80	Do. Do.
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Robinson Crusoe, De Foe	24	. 43 . 45	168	New York.
		.40	1	Chicago.
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The Boy's Parkman, Hasbrouck	do			
Montgomery. Indian Child Lie, Eastman. Indian Scout Talks, Eastman Indian Scott Talks, Eastman Indian Sketches, Hulst. Percaring for Citizenship, Guittean	4	.45	1	Do.
ndian Scout Talks, Eastman	6 3	.70 .48	20 153 129	Do. Do.
ndian Child Life, Eastman ndian Scott Talks, Eastman ndian Stetches, Hust. Preparing for Citizenship, Guitteau	6	:60	129	Riverside Press, Cam- bridge, Mass.
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Domestic Art in Woman's Education, Cooley.	7	1.00	272 272 272	Do.
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			196	Topeka, Kans.
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ducational Manual Training, Schwartz	3. 18. 3.	1.32	272	St. Paul.
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Farm Shop Work, Brace & Mayne	9	.74	1	Chicago.
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Home and its Management, The, Kitteridge Handbook of Home Economics, Flagg	5	1.20	272	St. Paul.
	9	.60 .40	272	Chicago. St. Paul.
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SCHOOLBOOKS AND SUPPLIES—Continued.

				
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Home Nurses' Handbook in Practical Nurs-	6	\$1.20	272	St. Paul.
ing, Aikens. Primary Hand Work, Graded Course for First	None			
Four Years, W. Seegmiller. Primary Manual Work, First and Second Grades Ledward	do			
mg, Alkens. Primary Hand Work, Graded Course for First Four Years, W. Seegmiller. Primary Manual Work, First and Second Grades, Ledyard. Manual of Shoemaking, A. Dooley Morning Exercises for all the Year, J. C. Sindelar.	5 16		272 272	Do. Do.
Science of Home Making, Pirie	5 4	.74 .44	272 272	Do. Do.
Primary Grades, Mary Gilman, Elizabeth B. Williams. Shelter and Clothing, Kinne & Cooley Reference Handbook for Nurses, Beck, third	<u>4</u>	.88	159	New York,
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King's Series in Woodwork and Carpentry, as follows:		1		
Elements of Woodwork	10	. 48 . 56	4	Chicago, Do.
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Handbook for Teachers	6	64 80	4	Do.
Shop Projects, Burton.	4	. 65 1. 12	272	Do. St. Paul.
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Elements of Woodwork Elements of Construction Constructive Carpentry Inside Finishing Handbook for Teachers Shop Projects, Burton Agricultural Engineering, Davidson American Apple Orchard, The, Waugh Animal Husbandry for Schools, Harper Beginnings in Animal Husbandry, Plumb Bird Guide:	5	1.12 .93	272 272	Do. Do.
Bird Guide:	,	.70	20	Chicago.
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Common Diseases of Farm Animals, Craig	4	1.321	151 159	Chicago. New York.
Domesticated Animals and Plants, Davenport	1	1. 28 1. 00	96	Chicago.
Elements of Farm Practice, Wilson Essentials of Agriculture, Waters Farm Animals, Hunt & Burkett	Nonedo.		•••••	
Farm Animals, Hunt & Burkett	2	1.13	183	New York.
Farm Management, Boss	1 8 None		272 272	St. Paul. Do.
		 		
Farm Coultry, Revised Edition, Watson	None	1.20	272	Do.
Fertility of the Land, Roberts	Nonedo			
First Principles of Feeding Farm Animals, Burkett.	2	1.10	272	D ₀ ,
First Lessons in Dairying, Van Norman	6	. 45	272	Do.
First Book of Farming, Goodrich	Nonedo			
Fertilizers, Voorhees	do			
How to Grow Vegetables, French	do			
How to Keep Bees, Comstock	do			
Introduction to Agriculture, Upham	do			•
Milk and its Products, Wing	do			
Nature Study and Life, Hodge	do			
Nursery Book, The, Bailey	do			•
Poultry Diseases, Wortley	2	.60	188	New York.
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Principles of Rural Economics, Carver Principles of Agriculture, Bailey	do			
Principles of Fruit Growing, Bailey	do			
Productive Poultry Husbandry, Lewis	do		:::: :	
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	None			
Rural School Agriculture, Davis	do			
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Bee Book	3	\$0.40	1	Chicago.
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Horse Book	2	:40	1 1	l Do.
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All the Children of All the People, Smith Blackboard Reading, Moore Everyday Problems in Teaching, O'Shea Child, The, Tanner Education by Plays and Games, Johnson Education, Thorndike. For the Story Teller, Bailey. For the Story Teller, Bailey. Great American Educators, Winship. Handbook on Vocatonal Education, Taylor History of Education, Seeley. How to Teach Reading, Arnold How to Study, McMurray. How We Think, Dewey. In the Child's World, Poulsson Language Games for All Grades, Deming. Recitation, The, Hamilton. Songs, Games, and Rhymes, Hailman. Stories Children Need, Balley Stars and Stripes, Stewart Teaching to Read, Turner. Training of Children, The, Dinsmore. Thinking and Learning to Think, Schaeffer. Profitable Vocations for Boys, Weaver. Vocations for Girls, Laselle & Wiley. Vocations I Education, Gillette				
All the Children of All the People, Smith	None			
Blackboard Reading, Moore	do			
Everyday Problems in Teaching, O'Shea	do			
Education by Plays and Games, Johnson	do			
Education, Thorndike	do			
For the Children's Hour. Bailey	do			,
Great American Educators, Winship	do			
Handbook on Vocational Education, Taylor.	do	¦		
How to Teach Reading, Arnold	do			
How to Study, McMurray	do			
In the Child's World, Poulsson	do			
Language Games for All Grades, Deming	do			•
Recitation, The, Hamilton	dodo			
Stories Children Need, Bailey	do			
Stars and Stripes, Stewart	do			ł
Training of Children, The, Dinsmore.	do			
Thinking and Learning to Think, Schaeffer.	do			•
Vocations for Girls, Laselle & Wiley	dodo	• • • • • • • • • • • • • • • • • • • •		
Vocations for Girls, Weaver	do			
Vocational Education, Gillette	do			
lows:			1	l
The Problem of Vocational Education, Snedden.	do		ļ	1
Education for Efficiency, Eliot	do		ļ	
Meaning of Infancy, Fiske	do		·	·
Snedden. Education for Efficiency, Ellot. Meaning of Infancy, Fiske. Moral Principles in Education, Dewey. Changing Conceptions of Education, Cub-	do			1
berly.				ł
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Course in Citizenship, Cabot, Andrews, and others.				1
others. Ethics for Children, Cabot Ethics for Young People, Everett Good Stories for Great Holidays, Olcott Moral Training in School and Home, Sneath	do		ļ	1
Einics for Young People, Everett	do		·····	1
Moral Training in School and Home, Sneath	do			1
				1
Vocational and Moral Guidance, Davis What a Young Boy Ought to Know, Stall What a Young Man Ought to Know, Stall	do			ì
What a Young Man Ought to Know, Stall	do	l		1

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SCHOOLBOOKS AND SUPPLIES—Continued.

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Campfire Girls of America, Handbook	do			
Free Gymnastics, Betz. Light Gymnastics, Betz. Games for the Playground, Home, School, and Gymnasium, Bancroft. Graded Games and Rythmic Exercises, New- ton.	do			·
Rythmic Action Plays and Dances, Moses Gymnastics, Stories, and Plays, Stoneroad Right Dress, Reilly Manual of Physical Training, Keene	do	l 		

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Blackboarderasers, noiseless and dustless	2,701	\$0.07	40	Chicago.
Blackboard hyloplate, green, 3 by 5, best	}8 4	(11.69	40	Do.
quality (or equal).	}84	1 1.62	40	Muncie, Ind.
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King James version	2	. 58	20	Do.
Complete outfit of repairing material (for re-	237 boxes	.145	80	Do.
pairing music, drawings, or any printed		ł		
matter).	ł		ł	ł
Call bells	45	. 13	80	Do.
Crayons, chalk:	1	l	ł	
White, dustless			238	Danvers, Mass.
Colored, assorted			238	Do.
Composition books, for ink	18,320 2		78	Chicago.
Eye cards, for illiterates	None			
	40 sets	. 18	172	New York or Chicago.
(or equal).				
Geometrical surfaces and solids for school-	4 sets	.95	14	Chicago.
room use.				_
Rubber printing outfit. Height of letters,	13 boxes	2.70	14	Do.
etc., 1, inches. The outfit to consist of				
capitals and small letters, one set of figures,	<i>}</i>			
fractions, ornaments, punctuation marks, and miscellaneous characters; also a self-		l		
		l		
inking pad, a tube of black ink, and a ruler and spacer. The outfit to be packed in a		J		
strong, varnished wooden box.				
Cabinet of weights and measures, with lock	None	1	1	1
Globes of the world:	Ионе	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	i
18 inches in diameter	do			
12 inches in diameter	19	A AR	184	Do.,
8 inches in diameter, papier-maché	12 3 1,368 pairs	2.77	184	Do.
Kindergarten scissors, blunt points	1 348 naire	#. na	172	New York or Chicago.
Maps, wall; size approximately 52 by 48	1,000 pans		1 ***	110W I CEL CE CAMPAGE.
inches, hand-mounted, on best muslin,	1	i	l	l
with or without dust-proof portable spring		l		•
roller board or case:	l	l		
roller board or case: - Arizona	None	<u> </u>	l	
Cali fornia	do			
Colorado	do			i
Idaho	do			I
Kansas	do			I
KansasMichigan	do		ļ	I
Minnesota	do			l
Montana	٠do			I
Nebraska	do		l	ì
New Mexico	do		l	1

¹ Lithoplate.

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Maps, wall, etc.—Continued. North Dakota. Oklahoma Oregon Pennsylvania. South Dakota. United States, large. Utah Washington. Wisconsin. Wyoming. Europe. Asia. Africa Australia. North America.				
North Dakota	None		l	
Oklahoma	do			
Oregon	do			
Routh Dekote	do			
United States, large	do			
Utah	do			
Washington	do			
W soming	do			
Europe	do			
Asia	do			
A trotvalia	do	••••••		
North America	do			
South America	do			
South America. South America. Individual outline maps, 9½ by 11½ inches (in pads of 50), as follows:			!	
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United States, sectional—			184	Chicago.
Section 2 South Atlantic States	33 nede	. 25 . 25	184	Do.
Section 3, North Central States	34 pads	.25	184	Do.
Section 4, South Central States	34 pads	. 25	184	Do.
Section 5, Western States	38 pads None	. 25	184	Do.
by 50 inches. Engle or equal.	140110	• • • • • • • • • • • • • • • • • • • •		
New Testament, medium size, revised ver-	do			•
sion.				
Pencil sharpeners, lead	140	.69 .08	80 80	Do. Do.
Plaster of Paris, in 5 and 10 pound cans	285 pounds 1	.12_	121	Do.
Newspaper stock, 5 by 7 inches	6,600 pounds 1	. 055	288	San Francisco.
Newspaper stock, 5 by 7 inches	384 dozen 285 pounds 1 6,600 pounds 1			
Newspaper stock, 5 by 7 inches	l .			
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Newspaper stock, 5 by 7 inches. Practice paper, Spencerian (per 100 sheets): Small. Large. Rules, wood, 12-inch. Perry pictures, 22 by 28 inches: Angel Heeds, Reynolds. A June Morning, Loveridge. An Old Momarch, Rosa Bonheur. Cattle of Brittany, Rosa Bonheur. Cattle of Brittany, Rosa Bonheur. Calling the Ferryman, Ridgeway Knight. Leeving the Hills, Farquharson. Children of Charles I, Van Dyck. Under the Elms, C. Loveridge. An Off Shore Breeze, Rose. Forest Pool, B. Lambert. Evening's Cooling Shades. Chwala.	l .			
Newspaper stock, 5 by 7 Inches Practice paper, Spencerian (per 100 sheets): Small Large Rules, wood, 12-inch Perry pictures, 22 by 28 inches: Angel Heads, Reynolds An Une Morning, Loveridge An Old Monarch, Ross Bonheur Cattle of Brittany, Ross Bonheur Calling the Ferryman, Ridgeway Knight Leaving the Hills, Farquharsom Children of Charles I, Van Dyck Under the Elms, C. Loveridge An Off Shore Breeze, Rose Forest Pool, B. Lambert Evening's Cooling Shades, Chwala Queen Louise, Richter	l .			
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SCHOOLBOOKS, SCHOOL DESKS, ETC.—Continued.

SCHOOL SUPPLIES—Continued.

Article.	Quantity swarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Portraits—Continued.				
Lafayette, Gen	None		l	
Lee, Robert E	do		ļ	
	do		I	
Longfellow, Henry W				
Mendelssohn				
	do			
Schubert			1	
Washington, Gen. George	do	l	l	
Washington, Martha	do	l	l	
Webster, Daniel Whittier, John G	do		1	
Whittier, John G	do		1	
Registers, White's new common-school (or equal).	do			

KINDERGARTEN MATERIAL.

Articles.	Catalogue No.	Quantity awarded.	Unit price.	No. of com- trac- tor.	Point of delivery.
Pirst gift	1	9 boxes	\$1.12	172	New York or Chicago.
Second gift	. 2	6 boxes	.56	172	Do.
Third gift	. 3	5 boxes	.18	244	New York.
Fourth gift	4	do	.18	244	Do.
Fifth gift	5		.38	172	New York or Chicago.
Fifth gift B	5B	1 boxdo	.38	173	Do.
Sixth gift. Seventh gift, as follows: Tablets (wood)—			.38	172	Do.
<u>A</u>		9 boxes 1	.39	244	New York.
В		5 boxes 1	.39	244	Do.
C D	22	do	.39	244	Do.
E		do	.3	244 244	Do. Do.
Ğ	22	Nome		~	
Ř	22	do			
K	22	do			
PARQUETRY.					•
Assortment No. 6A	2000	52 boxes	.15	172	New York or Chicago.
Do	2003	19 boxes	.40	172	Do.
R.	2151	59 packages	.06	172	Do.
Ö	2151	53 packages	:06	172	Do.
Ϋ́	21.51	51 packages	.06	172	Do.
G	2151	52 packages		172	Do.
B	2151	40 packages	.06	172	Do.
v	2151	50 packages	.06	173	Do.
Squares:	21.51	F4			D-
0	2151 2151	54 packages 41 packages	.06	173	Do. Do.
Ÿ	2151	do	.06	172	Do.
Ġ	2151	51 packages	.06	172	Do.
B	2151	do	.06	172 !	Do.
v	2151	49 packages	.06	172	Do.
Equilateral triangles:					_
R	2151	44 packages	.06	172	Do.
о Ү	2151 2151	39 packages	.06	172	Do. Do.
Ġ	2151	42 packages	.06	172	Do.
B	2151	38 packages	.06	172	Do.
v	2151	37 packages	.06	172	Do.
PAPER FOR STRINGING.					
R	2144R	60 packages 1	.09	244	New York.
Ö	21440	33 peckages 1	.00	244	Do.
Ğ	2144G	65 packages 1	.09	244	Do.
B	2144B	27 packages 1	.09	244	Do.
R, W, B, assorted	2141D	78 packages 1 J	.09 (214	De.

SCHOOLBOOKS, SCHOOL DESKS, ETC.—Continued. KINDERGARTEN MATERIAL—Continued

No. of Unit Quantity awarded. Catalogue No. con-Article. Point of delivery. traoprice. tor. SEWING CARDS. Cards, 5½ by 5½: Sistine Madonna, plain ribbon. 193-E-1 193-E-9 **\$**0. 01 172 New York. 705 1,220..... 986.... Do. Do. . 01 172 191-E-10 193-E-14 193-D-807 .01 172 Do. Valentine..... 1,337.... 1,336.... . 01 172 Easter 193-D-807 Puritans Going to Church 193-E-23 Blank sewing cards: . 01 Do. 172 Do. 913..... 172 . 01 144 packages... Chicago. Do. WEIVING Schute weaving cards: 4-inch disk 25 dosen..... New York or Chicago, .12 172 Do. 6-inch disk... 44 dozen..... .19 172 Bodkins for Schute weaving cards none..... 63 packages 1... 244 New York. R mats, 7 by 7, slits 1 by 1, alter-1029-R .119 nating. O mats, 7 by 7, slits ½ by ½, alter-Do. 1029-O 71 packages 1119 244 O mats, 'Dy', and I by 4, and nating. R, O, Y, G, B, V, 7 by 7, tints and shades and grays. R, O, Y, G, B, V, 4 by 4, tints and shades and grays. R, O, Y, G, B, V, ½ by ½, slits, alternating. Weaving needles, Ball's patent.... 1030 181 packages 1... .119 244 Do. 1110 .079 244 Do. 83 packages 1 ... Do. 1140 133 packages 1. .079 244 373 packages 04 173 Chicago. MRS. HAILMAN'S GRADED MATS. Do. Do. 1201 72 packages.... 172 172 1205 PAPER CUTTING. Squares, 4 by 4: White..... 172 172 172 172 172 209 81 packages.... 100 packages... Do. . 06 Red, tints and shades..... .12 .12 .12 Do. 211-R 211-0 range. Assorted colors. Equilateral triangles, 4 by 4: Coated, assortment A. Green, tints and shades. Circles, 4 by 4: Coated, assortment A. 75 packages... Do. 211-H 212-X 212-G 45 packages... 35 packages... . 18 Do. Do. .18 172 213-X 213-R 80 packages 1... 83 packages 1... New York. Red, tints and shades.... Do. CLAY MODELING New process clay flour (5 pounds Do. 2.24 244 457 255 pounds 1 in a box). Modeling tools: New York or Chicago. Figure 1... 9 dozen..... .19 172 Figure 2. Modeling boards: No. 1, 7 by 9. No. 2, 9 by 12. 10 dozen..... Do. 454 . 19 172 1.00 1.12 455 3 dozen.... 172 Do.do...... 172 RINGS FOR RING LAYING. 500 rings, gummed: 1-inch, in 6 shades and colors. 11-inch, 6 colors, tints and shades. 68 packages . . . 40 packages ¹ . . 172 Do. New York. 112 . 39 244 112 500 rings, 2-inch, 6 colors, tints and . 39 Do. 112 33 packages 1 ... 244 shade New York or Chicago. Soldered rings, 1, 11, and 2 inch... 110 14 packages.... . 50 172 WORSTED AND SILKATEEN. Chicago. New York. 194 boxes 1 36 78 195A 382 laps 1..... 198A . 174 244

Per box.

SCHOOLBOOKS, SCHOOL DESKS, ETC.—Continued. KINDERGARTEN MATERIAL—Continued,

Article.	Catalogue No.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
MISCELLANEOUS.					
Needles:	100	100			
Nos. 18, 20, 23, and 25 Perforating, medium	199 171	198 papers 15 dozen	\$0.07 .207	172	New York or Chicago New York. New York or Chicago
Perforating, coarse	171 171 A	11 dozen	.30	244 172	New York or Chicago
Pricking cushions	173	44 dozen 29 gross	.90	172	Do.
Hooks, to suspend drawings, etc	37 4259	29) gross	. 58 1. 80	80	Chicago.
Studio paper cutter, 10-inch biade Yardatioka	4209	7	.046	80 80	Do. Do.
Perforating, neutum Perforating, coarse Pricking cushions Hooks, to suspend drawings, etc Studio paper cutter, 10-inch blade Yardsticks Gutcational clook disl, 12-inch Sectional animals (in box).		27	. 145	14	Do.
Sectional animals (in box)	4193	67 sets	- 06	172	New York or Chicago
Sectional birds (in box) Dissected map of United States, 15		79 sets	.06 .45	172 172	Do. Do.
by 22. in wood.	7208	30 aoua	. 50	1 ***	20.
by 22, in wood. Ludington's Picture Problems:				1	
Part 1	- 	39 sets	.20	172	Do.
Primary neg hoarde sauare form	••••••	32 30t8	. 20 1. 10	172 172	Do. Do.
Round pegs. 6 colors		96 boxes !	. 121	244	New York.
Part 2 Primary peg boards, square form		31 sets	. 18*	14	Chicago.
BOOKS.				1 1	
Kindergarten Chimes, Kate Doug- las Wiggin. Songs and Games for Little Ones, Harriet S. Jenks and Gertrude		None		l	
las Wiggin.					
Songs and Games for Little Ones,	• • • • • • • • • • • • • • • • • • • •	do	· · · · · · · · · · · · · · · · · · ·		•
Walker.				•	
Finger Plays, Emilie Poulsson		do			
		•			
PAPER.					
Bradley's tinted drawing, construction, and mounting papers, 12 by 18, in packages of 50 sheets, as follows: No. 1, light brown. No. 4, gray-blue. No. 7, light gray. No. 8, blue. No. 12, green. No. 14, red. No. 20, gray.		77 packages	. 18 . 18 . 18 . 30 . 30 . 40 . 20	80 80 80 172 172 172 172	Do. Do. Do. New York or Chicago. Do. Do. Do.
BULED DRAWING PAPER.					
25 sheets, 17 by 22: i-inch squares i-inch squares	134 136A	87 packages ¹ 113 packages ¹	. 29 . 29	244 244	New York. Do.
UNBULED MOUNTING SHEETS.					
12 leaves, 7 by 7, white bristol	76	184 packages 1	.06	244	Do.
STRAWS AND STRINGING.					
			•		
Straws, { inch long: Waxed	463B 463C	33 thousand 1	. 19 . 26	172 172	New York or Chicago Do.
GUMMED PAPER DOTS.					
Jameses in envolume 6 colors	459	32 thousand 1	. 119		New York.
Equares, in envelope, 6 colors Circles, in envelope, 6 colors	459 A	oz riionsand	.119	244	Dα
Sliver sters	459C	do 219 hundred	. 045	80	Chicago. Do.
United States flag	459E	500 hundred	. 058	14	Do.
STICKS.		1		i 'l	
DATOMO					_
	90	22 thousand	. 15	172	Do.
5 inches, plain sticks	20	16 41			
inches, plain sticks	92	16 thousand	.11	172	Do.
5 inches, plain sticks	92 103	16 thousand 33 boxes 28 dozen	. 55	172 172 80	Do, Do,

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COMMISSIONER OF INDIAN AFFAIRS.

SCHOOLBOOKS, SCHOOL DESKS, ETC.—Continued. KINDERGARTEN MATERIAL—Continued.

	,	·			
Artiele.	Catalogue No.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
PAPER STRIPS FOR LACING.					
inch wide, 6 colorsinch wide, 6 colors	430 A 431 A 434 A	113 packages 41 packages 54 packages	\$0.04 .06 .08	80 80 80	Chicago. Do. Do.
DISCONNECTED SLATS.					
Slats, 10 inches long: 6 colors Plain	413 411	21 hundred 1 9 hundred 1	. 121 . 07	244 244	New York. Do.
JOINTED SLATS.					
Of 8 links. Of 10 links, extra heavy. Of 16 links, extra heavy.	422 425 424	10 sets	. 12 . 18 . 25	172 172 172	New York or Chicago Do. Do.
	8	CHOOL DESKS.		·	
Desks, school, with seats, single:					
No. 1, for scholars 18 to 21 years old.		None			
No. 2, for scholars 15 to 18		do			
years old. No. 3, for scholars 13 to 15		do			•
years old. No. 4, for scholars 11 to 13		do			
years old. No. 5, for scholars 8 to 11		do			•
years old. No. 6, for scholars 5 to 7		do			
years old. Deaks, school, back seats for, single:					
No. 1		do			
No. 2 No. 3		do		•••••	
No. 4		do			
		do			
Desks, school, single, adjustable: Large; cover 1 to 3 regular		do			
desks. Medium; cover 8 to 5 regular		đo		l	
desks. Small; cover 4 to 6 regular		do			
desks. Desks and chairs, steel, ajustable,					
single: 1 or A, for scholars 10 years		do			
up.		do			
VAALS.			i		
5 or C, for scholars 4 to 7 years.		do	••••••		

1 Only.

GASOLINE, KEROSENE, AND OLEOMARGARINE.

[Bids	opened	in St.	Louis,	May	15,	1918.]
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Article.	Catalogue No.	Quantity awarded.	Unit price.	No. of con- trac- tor.	· Point of delivery.
Gasoline, 86° Baumé (per gallon)		2,000 gallons (32,490 gallons 600 gallons	{1 \$0. 435 2. 5475 1. 245 1. 25	240 240 269	F. o. b. Whiting, Ind. Do. Laona Agency, Wis.
Gasoline, 58° to 64° (per gallon)		2,200 gallons 900 gallons 800 gallons 1,500 gallons 4,000 gallons 250 gallons	1, 25 1, 255 1, 26 1, 265 1, 245 1, 226	256 256 256 256 266 200	El Paso, Tex. Albuquerque, N. Mex. Santa Fe, N. Mex. Globe, Ariz. Tucson, Ariz. Pipestone, Minn.
		(28,160 g : 'lons 2,500 gallons 850 gallons 750 gallons 500 gallons 300 gallons	1, 1107 1, 18 1, 16 1, 15 1, 145 1, 165 { 1, 18 1, 085	256 256 256 256 256 256 256 239	St. Louis, Mo. Globe, Ariz. Albuquerque, N. Mex. El Paso, Tex. Tucson, Ariz. Santa Fe, N. Mex. San Francisco, Cal.
Kerosene (per gallon)	•••••	9,220 gallons	*. 18 1. 085 *. 19 1. 095 *. 195 1. 095	239 239 239	Los Angeles, Cal. San Diego, Cal. Portland, Oreg.
		200 gallons	1.095 1.095 2.195 1.095 1.095	239 239 200	Tacoma, Wash. Seattle, Wash. Pipestone, Minn.

AUTOMOBILE SUPPLIES.

[Bids opened in Chicago Apr. 15, 1918.]

Pire chains	111 pairs*	(121	Chicago.
30 by 3 inches		\$2.93	121	Do.
30 by 31 inches		3.20	121	Do.
32 by 34 inches	.'		121	Do.
34 by 34 inches			121	Do.
			121	Do.
36 by 41 inches		5.18	121	Do.
park plugs		.38	115	Do.
inner tubes:	1			
30 hy 3	559	1.80	131	New Brunswick, N. J
30 by 31	683	2.10	131	Do.
32 by 34		2.19	131	Do.
34 by 34	None	2.25	131	Do.
34 by 4		2.76	131	Do.
36 by 41	None	3.52	131	Do.
Casings:	1 1	1		-
30 b▼ 3	521 6	7 11.11	79	(8)
30 by 31	524 6. 612.	7 14.49	79	(3)
32 b♥ 33		7 17.00	79	(B)
84 by 34	None	1 19.76	79	
34 by 4	2	1 24. 22	79	(0)
36 by 41	None	7 34. 67	79	(8)

¹ In barrels.
² In 5-gallon cans.
³ In two 5-gallon cans, cased.
⁴ In 30 or 60 pound tubs.
⁶ Only.
⁶ Clincher.

Prices expire by limitation Dec. 31, 1913.
 Clincher or straight side.
 New York, Chicago, Omaha, Kansas City, St.
 Louis, St. Paul, San Francisco, Los Angeles, Portland, or Seattle.

MISCELLANEOUS SUPPLIES.

[Bids opened in St. Louis, Mo., May 20, 1918.]

Articles.	Quantity awarded.	Unit price.	No. of con- trac- tor.	Point of delivery.
Galvanized steel barrels, 55 gallons capacity, with the words "Indian Service" embossed thereon, and also the word "Gasoline" or "Kerosene," as the service may require: For gasoline. For kerosene. Carbide (or carbolite), in Iron drums. Fire extinguishers, chemical, good quality, as follows: Inverted type, soda and acid, 2; to 3 gallons capacity. "Squirt-gun" type, about 1 quart capacity, charged with liquid chemicals and ready for immediate use. Fluid, chemical (carbon tetrachloride base), for recharging the 1-quart fire extinguishers.	Nonedo	(1) \$9.50 5.00 { 23.33}	262 173 206 206 206	(t) St. Louis. New York. Do.
Billies, black leather, shot-loaded, leather loop and button: medium weight. Handcuffs, steel, self-locking, adjustable	Nomedo			

ELECTRICAL SUPPLIES.

[The following electrical supplies must conform to the requirements of the National Electrical Code.]

Wire, rubber-covered, double-braided, solid; No. 14.	None	 		
Wire, rubber-covered, for fixtures, light;	do	- 		
Sockets, Edison key:	do			
j-inch cap	do		1	
i-inch cap.	do			
Receptacles, separate bowl, attachment plug, Edison base.	do			
Battries, dry; good quality, round, 24 inches by 6 inches.	do			
Cord, flexible, electric lamp and heater; cotton covered, twisted pair; No. 16.	do	! !	ļ	

COAL.

[Bids opened in Washington, D. C., June 5, 1918.]

	l		Γ	
Coal, soft, lump Coal, soft, mine run Coal, soft, nut.	800 tons	\$4.00 3.30	154 268	8
com, sort, resspective	30 tons	13.00	1391	(*)
Coal, soft, mine run	1,200 tons	3.00 2.75	154 154	(10)
Oobi, Soit, Musiciani and Control of the Control of		2	•••	1 ` '

If Soult Ste. Marie. Mich. (works), dehvery
II Sault Ste. Marie, Mich. (Works), delivery
If Chicago, Ill.; Minneapolis, Minn.; East St. Louis, Ill.; Fargo, N. Dak.; Sloux City, Iowa;
Omaha, Nebr.; St. Joseph, Mo.; or Kansas City, Mo., deliveriesper ton. 90.00
If Oklahoma City, Okla., deliverydodo
If El Paso, Tex. deliverydo105.00
If Denver, Colo., delivery
If Salt Lake City, Utah, delivery
If Salt Lake City, Utah, delivery
deliveries per ton 107.00
Mari Action

82607°-INT 1918-VOL 2-22

Contracts awarded for beef, pork, and mutton for the Indian Service for the fiscal year ending June 30, 1919.

[Bids opened in Washington, D. C., June 10, 1918.] BEEF, NET.

Agency, school, etc.	Quantity awarded.	Price per 100 pounds.	Num- ber of con- trac- tor.	Point of delivery.
Canton Asylum for Insane Indians, South	Pounds. 13,900	\$17. 25	61	Canton, S. Dak.
Dakota.	1 4,000	22, 97	253	Carlisle School.
Carlisle School, Pennsylvania	30,000	16.90	136	Stewart, Nev.
Chilocco School, Oklahoma	100,000 6,500	16.69 16.50	171 140	Chilocco School. Cross Lake School.
Cross Lake School, Minnesota	45,000	20. 25	371	Cushman School.
Cheyenne and Arapahoe School, Oklahoma Eufaula School, Oklahoma	1 4,000 2 500	17.50 17.50	61	Concho, Okla. Eufaula, Okla.
Fort Hall School etc Idaho	50,000	17, 50	127	Fort Hall Agency.
Fort Lapwai Sanatorium, Idaho. Flandreau School, South Dakota.	15,000 17,000	20.92 17.50	371 61	Fort Lapwai, Idaho. Flandreau, S. Dak.
	65,000	17.50	233	Genoa School.
Haskell Institute, Kansas Hayward School, Wisconsin Keshena School, Wisconsin Kiowa Hospital, Oklahoma	1 14,000 1 1,500	16. 80 17. 50	61 61	Haskell Institute.
Keshena School, Wisconsin	1 2,000	18. 20	253	Hayward, Wis. Shawano, Wis. Lawton, Okla.
Kiowa Hospital, Oklahoma	6,000 43,000	18.73	157 50	Lawton, Okla. Germantown, Kans.
Kickapoo School, Kansas Lac du Flambeau School, Wisconsin	1 2,500	17.50	61	Lac du Flambeau, Wis.
Mekusukey Academy, Oklahoma Osage School, Oklahoma	12,000	17. 40 17. 50	103 61	Seminole, Okla. Pawhuska, Okla.
Phoenix School, Arizona	130,000	12.50	259	Phoenix School.
Pierre School, South Dakota	21,800 15,000	17. 50 17. 50	61 61	Pierre, S. Dak. Pipestone, Minn.
Ponca School, Oklahoma. Pueblo Bonito School, New Mexico.	1 5,000 2 800	17.50	61	Whiteagle, Okla.
Pueblo Bonito School, New Mexico	17,000 11,500	15. 00 18. 70	22 253	Pueblo Bonito Agency. Rapid City, S. Dak.
Red Lake School, Minnesota	12,000	16.00	140	Red Lake School.
Red Lake Hospital, Minnesota	2,500 10,000	16.00 15.00	140 132	Red Lake Hospital. Shiprock, N. Mex.
San Juan School, New Mexico	40,000	14. 75	77	Santa Fe School.
Salem School, Oregon	100,000 21,300	16.50 16.90	59 61	Salem School. Weatherford, Okla.
Shawnee School, Oklahoma	12,000	17.00	103	Shawnee School.
Seneca School, Oklahoma	44,500 15,000	18, 73 18, 10	50 253	Wyandotte, Okla.
Tulalip School, Washington	23,000	29. 45 22. 00	87	Tomah, Wis. Tulalip, Wash. Rolla, N. Dak.
Snawnee School, Oklahoma Seneca School, Oklahoma Tomah School, Wisconsin. Tulalip School, Washington Turtle Mountain Day Schools, North Dakota. Turtle Mountain Hospital, North Dakota.	1,760 2,000	22,00 22,00	191	Rolla, N. Dak. Do.
Vermillion Lake School, Minnesota	13,000	17.50	61	Tower, Minn.
В	EEF, GROSS.			
Fort Belknap School, Montana	32,310 15,000	\$8, 90 9, 20	149 149	Fort Belknap Agency. Box Elder, Mont.
F	RESH PORK.			······································
Red Lake Hospital, Minnesota	300 • 300	\$23.00 30.00	140 191½	Red Lake Hospital. Rolla, N. Dak.
	MUTTON.		•	·
Red Lake Hospital, Minnesota	200 12,900	\$25.00 15.00	140 22	Red Lake Hospital. Pueblo Bonito Agency.

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¹ July 1 to Sept. 30, 1918.
2 Sept. 1 to Sept. 30, 1918.
Loin steak, 30 cents per pound; round steak, 30 cents per pound; chuck roast, 25 cents per pound; ribrost, 30 cents per pound; hamburger, 25 cents per pound.
July 1 to Dec. 31, 1918.
Only.

REPORT OF THE BOARD OF INDIAN COMMISSIONERS

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BOARD OF INDIAN COMMISSIONERS.

MERRILL E. GATES, Washington, D. C.; appointed June 27, 1884. GEORGE VAUX, Jr., Philadelphia, Pa.; appointed November 27, 1906. WARREN K. MOOREHEAD, Andover, Mass.; appointed December 19, 1908. SAMUEL A. ELIOT, Boston, Mass.; appointed November 27, 1909. Frank Knox, Manchester, N. H.; appointed May 2, 1911. EDWARD E. AYER, Chicago, Ill.; appointed November 18, 1912. WILLIAM H. KETCHAM, Washington, D. C.; appointed December 3, 1912. DANIEL SMILEY, Mohonk Lake, N. Y.; appointed December 17, 1912. ISIDORE B. DOCKWEILER, Los Angeles, Cal.; appointed December 22, 1913. MALCOLM McDOWELL, Chicago, Ill.; appointed May 28, 1917.

GEORGE VAUX, Jr., Chairman. MALCOLM McDowell, Secretary.

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FORTY-NINTH ANNUAL REPORT BOARD OF INDIAN COMMISSIONERS.

PISCAL YEAR ENDED JUNE 30, 1918.

Washington, D. C., September 1, 1918.

SIR: We have the honor of submitting herewith the Forty-ninth Annual Report of the United States Board of Indian Commissioners for the fiscal year ended June 30, 1918, and invite your attention to the recommendations contained therein.

Members of this body during the year have inspected and made surveys of conditions of 45 reservations, schools, hospitals, and other branches of the Indian Service, and their special reports thereon have been transmitted to you with their recommendations and suggestions, some of which have been adopted and put into effect, while others are still under consideration.

We laid before the Commissioner of Indian Affairs several urgent matters coming to our attention, and Commissioner Sells took prompt action on those which he considered of an emergency character.

INSPECTIONS AND SURVEYS.

We beg to invite your attention to the following summary of inspections, surveys, and recommendations made by members of this board:

Indian Labor in Arizona (filed Aug. 20, 1917), by Commissioner Ayer, who recommended that an agent in the Indian Service be detailed to look after the interests of Indian laborers and to cooperate with superintendents in Arizona, New Mexico, and eastern California in securing Indians for cotton picking and to see that the Indians not only receive adequate pay but are provided with decent living conditions. (See Appendix A.)

MENOMINEE RESERVATION, Wis. (filed Dec. 27, 1917), by Commissioner Ayer, who renewed recommendations made in January, 1914, for stocking the pasture lands of the Menominee Reservation with a tribal herd. (See Appendix B.)

Indians for National Parks and Forests (filed Dec. 27, 1917), by Commissioner Ayer, who recommended that Indians be employed to replace at least 75 per cent of the white rangers, guards, and other employees in national parks and forests. (See Appendix C.)

CHOCTAWS IN MISSISSIPPI (filed Jan. 15, 1918), by Commissioner Ketcham, who made certain recommendations for an appropriation to establish an agent-physician, field matron, etc., in the Choctaw country in Mississippi and to provide school facilities for the Indian children.

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The appropriation and necessary legislation were secured from Congress, and the Indian Office has begun its work for the benefit and

civilization of these Indians. (See Appendix D.)

Health Drive in Oklahoma (filed Jan. 16, 1918), by Commissioner Ketcham, who made recommendations as follows: That every effort be made by the Board of Indian Commissioners to assist Commissioner Sells in securing a congressional appropriation to enable him to establish a permanent organization for health work among the Choctaws and Cherokees in particular and to inaugurate similar work among other Oklahoma tribes where tuberculosis is prevalent; that a Choctaw-speaking official be appointed for the Talihina Sanitarium; that cottages and tents be put up for the older patients in this institution and that State aid be secured to segregate tubercular Indians; that the health pamphlets printed in the Choctaw language be more widely distributed and similar health pamphlets, in the Indian tongues, be printed and distributed for the benefit of other

Oklahoma tribes. (See Appendix E.)

BLACKFEET RESERVATION, MONT. (filed Jan. 16, 1918), by Commissioner McDowell. Among the several recommendations made are the following: That the agency headquarters be moved from the present site to a point on the Great Northern Railroad 2 miles distant and suitable buildings be erected for administrative and residence purposes, or else that the present buildings be repaired to provide decent living quarters for officials and employees and water and drainage systems be installed and other improvements made; that the Government cooperate with the State of Montana in enlarging the publicschool plant at Browning and that a day school be placed in the Cutbank district; that the reservation boarding school be enlarged to care for 250 children and a modern dairy barn be built for that school; that field matrons be appointed for the Heart Butte and Cutbank districts and adequate transportation facilities be provided for all field matrons; and that if the so-called Ten-mile strip is sold the proceeds be prorated and used to purchase cattle for individual Indians. (See Appendix F.)

ROCKY BOY BAND, MONT. (filed Feb. 7, 1918), by Commissioner McDowell, who recommended that definite arrangements for a contract physician be made for the benefit of the Indians; that the present system of issuing rations to them, when needed, be continued for a few years until their farms can sustain them. (See Appendix G.)

a few years until their farms can sustain them. (See Appendix G.)
Seminoles of Oklahoma (filed Feb. 4, 1918), by Commissioner
Ketcham. Certain matters in connection with this tribe were taken
up with the Secretary of the Interior and the Commissioner of Indian Affairs, who acquiesced in the recommendations made. (See

Appendix H.)

KIOWA, AGENCY, OKLA. (filed Feb. 14, 1918), by Commissioner Ketcham, who recommended that a tent colony for tubercular patients be established on the grounds of the Fort Sill sanitarium, and that the Indian Office be urged to cooperate with the State of Oklahoma in enforcing segregation of tubercular patients. (See Appendix I.)

Crow Reservation, Mont. (filed Mar. 12, 1918), by Commissioner McDowell, who recommended, among other things, that the field-matron service be strengthened and the field matrons equipped with

transportation facilities to enable them to perform their work effectively; that the Commissioner of Indian Affairs be urged to consider the advisability of making a good hard road out of the abandoned right of way of the Chicago, Burlington & Quincy Railroad in the western part of the reservation in cooperation with the county; that a strong suggestion for the enactment of compulsory school laws on this and other reservations be made to Congress; that an agricultural survey of the Crow Reservation to locate the dry farming lands now classed as grazing lands be made; that improvement leases, properly safeguarding the interest of the Indian allottees, be made to white farmers of the irrigated allotments in the Big Horn Valley. (See Appendix J.)

Papago Reservation, Ariz. (filed Apr. 9, 1918), by Commissioner Ayer, who particularly recommended that the agency house at San Xavier be immediately repaired and improved so as to make it habitable, and that two or three more wells be driven in the neighborhood of Tapowa and Piscinamo. This report is supplemental to one made by Commissioner Ayer a year ago. (See Appendix K.)

to one made by Commissioner Ayer a year ago. (See Appendix K.) PIMA RESERVATION, ARIZ. (filed May 2, 1918), by Commissioner Ayer, who again urged the immediate construction of a lower diversion dam in the Gila River just above Sacaton; that a bridge be built across the Gila River at Sacaton; that a fully equipped playground be installed for the reservation boarding school, and that new suitable dormitories for this school be built or else the school abandoned entirely and a day school for the children living around the reservation be built; that two more field matrons be detailed to this reservation; that at this reservation, and all others, employees have small plots of ground allotted to them with free water for gardening purposes; that facilities for teaching woodworking to the older boys be provided. (See Appendix L.)

MESCALERO RESERVATION, N. MEX. (filed May 13, 1918), by Commissioner McDowell, who made the following recommendations: That a certain portion of their grass money be set aside each year to meet the emergency needs of the Indians for food, clothing, and agricultural purposes; that a portable engine and boiler of sufficient capacity be bought to make one of the sawmills available for local lumber needs; that a day school for small children and a community center for the women be provided for the Fort Sill Indians at White Tail; that a field matron, fully equipped and provided with a house and automobile, be detailed for the Mescalero Apaches; that the hospital be provided with an operating room, dispensary, maternity ward, and a separate dining room for the doctor and nurses and employees; that an additional thrashing outfit for the Carrizo and Tularosa districts be purchased and an additional farmer be authorized for the Carrizo district. (See Appendix M.)

GREENVILLE JURISDICTION, CAL. (filed June 5, 1918), by Commissioner McDowell, who recommended that the superintendent be relieved as much as possible of supervision of the boarding school so he can give more time to the pressing affairs of the agency, and that he be given sufficient clerical help and funds for agency purposes.

(See Appendix N.)

ROUND VALLEY JURISDICTION, CAL. (filed June 5, 1918), by Commissioner Smiley, who made the following recommendations: That

when the 25-year trust period on the valley allotments in the Round Valley Reservation expires the Secretary of the Interior take such action as will release from all restrictions both the valley and upland allotments; that the Commissioner of Indian Affairs be requested to inquire into the advisability of changing the agency headquarters from Round Valley to a site on the Northwestern Pacific Railroad; that the Commissioner of Indian Affairs be requested to consider the suggestion that the old school plant in Round Valley be utilized for a home for the old and indigent, a hospital, and a demonstration farm for the benefit of all the Indians in the Round Valley jurisdiction; that a competent specialist in eye diseases be detailed to treat the nonreservation Indians for trachoma; that every effort be made to induce the county officials to admit nonreservation Indians to county institutions and that earnest efforts be continued to place Indian children in the public schools. (See Appendix O.)

CUSHMAN SCHOOL AND AGENCY, WASH. (filed June 26, 1918), by Commissioner Vaux, who recommended that at Cushman a printing office be provided, the School of Letters made a tenth-grade school, and as soon as is practicable a well-qualified principal be regularly appointed; that so long as both the Cushman and Salem schools are maintained mechanical training, particularly in the line of marine engineering, be emphasized at Cushman and agriculture be featured at Salem; that definite steps be taken by which Alaskan Indian children may better be looked after and protected upon their arrival in Seattle; that at Muckleshoot Reservation the field matron work be enlarged and carried further so as to take more of the form which has come to be generally recognized as "community center work."

(See Appendix P.)

Tulalip School and Agency, Wash. (filed June 26, 1918), by Commissioner Vaux, who made the following recommendations: That in the heavily timbered country of the northwest cut-over lands be leased for not less than 8 or 10 years, with provisions in the leases requiring tenants to clear the land so that it will be suitable for agricultural purposes; that the Board of Indian Commissioners approve the action of the Indian Bureau in prohibiting pagan and other dances which have a degrading influence upon Indians, and that the prohibition of such proceedings be made even more positive; that careful inquiry be made into the best methods of suppressing the objectionable features of the Indian Shaker cult; that the superintendent of the Tulalip Agency be earnestly supported in his efforts to counteract pro-German influences directed against the loyalty of the Indians on the Lummi Reservation. (See Appendix Q.)

JURISDICTIONS IN WASHINGTON, OREGON, IDAHO, NEVADA, CALIFORNIA, AND ARIZONA (filed June 27, 1918), by Commissioner Ketcham, who made the following recommendations: That a comprehensive survey of moral conditions on Indian reservations be made by the board to provide the Secretary of the Interior with information on which he may, if he desires, base recommendations to Congress for legislation which will give superintendents the authority to prosecute and procure punishment for violations of marriage, divorce, and moral laws on reservations; that the Commissioner of Indian Affairs require superintendents annually to furnish Indians under their charge with a statement of the conditions of tribal lands and moneys, as shown

by the books in the Indian Office; that the boarding-school plant at Umatilla be made into a hospital; that the Commissioner of Indian Affairs take steps to obtain information which will lead to the arrest and conviction of unpunished murderers on the Coeur d'Alene Reservation; that the agency physician on this reservation be provided with a good home and adequate means of transportation; that a contract physician be provided for Grand Ronde. (See Appendix R.)

St. Regis Reservation, N. Y., by Commissioner Moorehead. This

is a narrative report and carries no recommendations.

MARRIAGES AND DIVORCES.

The most important matter which we desire to bring to your attention and to urge that you give it earnest consideration is the increasing tendency toward moral laxity of the Indians on a number of reservations. There is urgent need of enforcible regulations, congressional legislation, or both, which will clothe superintendents with sufficient authority to arrest or cause the arrest and secure adequate punishment of offenders, both Indians and whites, against morality when the offenses are committed within the limits of reservations.

There is need, too, of an explicit definition of the extent and degree of authority delegated to superintendents by departmental regulation and legislation, Federal and State, in respect to marriages, divorces, and illicit sexual relations in the Indian country. We find there is confusion in the minds of a considerable number of superintendents in regard to their authority to procure arrest and punishment for violations of moral laws in the reservations under their control.

Somewhere along the line of Federal activities in the administration of Indian affairs, beginning with Congress and ending with superintendents, there is a defect which seriously weakens, if it does not entirely nullify, any authority there may be to punish offenders against the moral laws in Indian country. Just where the weakness, omission, neglect, or timidity is we do not know. We are strongly of the opinion, however, that the following are among the causes that contribute to the increase of immorality. The fact that State court decisions seem to be contradictory, the absence of specific Federal legislation, the confused state of mind of the men in the field as indicated by their wide divergence of opinions in respect to competent jurisdiction and authority, the disinclination of State and county officials to cooperate with superintendents because the county derives no revenue from nontaxpaying Indians, and the indifference of neighboring white communities to anything which is designed to advance the Indians on the way to civilization and citizenship.

On some reservations the Indians abide strictly by the State laws in respect to marriages and divorces. On other reservations in the same State the Indians pay no attention to such laws; men and women live together without any form of marriage—State or tribal; if married under the State law, husbands leave their wives and wives their husbands to live with other "husbands" and "wives" without ever thinking of legal divorces. The conditions on some reservations are becoming intolerable and unless they are quickly remedied all the constructive work of the missionaries and superin-

tendents will be lost.

It is not necessary to name any particular reservation in this connection; the fact that there is a shameful looseness in morals and marriage relations among a number of Indian tribes is known to Members of Congress, the Indian Office, the Board of Indian Commissioners, missionaries, superintendents, and the Indians themselves. What is necessary is to give the Indian Office adequate authority to

effectively fight this growing evil.

There are some who hold the view that Congress can not take jurisdiction itself in such cases. But, in other matters, Congress has not hesitated to authorize State courts to handle litigation in which full-blooded, restricted Indians are parties to the suit or case. Thus the act of May 27, 1908, provides that county courts in Oklahoma shall have jurisdiction in Indian probate cases. Another act gives county courts in Oklahoma the authority to find the heirs of full-blooded Indians and to partition the allotments of such Indians. The several Indian appropriation acts of recent years provided funds not only to pay the salaries of Indian Service probate attorneys but also all necessary court costs, etc. The antiliquor law, which is so drastic in its provisions that it enabled the Indian Office to change reservations which had been overrun with bootleggers into 100 per cent "bone-dry" territory, rests on the police power of Congress over Indian reservations.

The Indian appropriation act approved March 3, 1885, lists the seven specific crimes for which Indians can be tried in Federal courts. They are murder, manslaughter, rape, assault with intent to kill, arson, burglary, and larceny. But there seems to be no act or provision in any act which provides a way to punish adultery, seduction, illicit cohabitation, and like crimes committed by Indians or whites within Indian reservations.

We believe that much can be accomplished in the way of moral rehabilitation of those Indian reservations where moral laxity is on the increase if Congress would pass a law conferring jurisdiction on State courts to try cases arising from offenses against the moral laws on reservations. It will be necessary, if this is done, to make provisions for the payment of State court fees and charges as is done in the case of probate matters in Oklahoma. This act to be most effective should be so comprehensive in its scope and so drastic in its provisions that it would enable the Bureau of Indian Affairs to put an end to sexual immoralities, such as illicit cohabitation, adultery, and other open offenses of like character, and of the "secret" and pseudo-religious dances and ceremonies which cloak bestial practices and gross immoralities and which would be particularly severe in its punishment of white men who prey on Indian women.

RETURNED STUDENTS.

For two years the board has been conducting an inquiry into the record of Indian boys and girls who have returned to their homes from reservation and nonreservation schools. Our survey of this, the so-called returned-student problem, clearly developed the fact that while a number of these boys and girls are maintaining high standards and making good citizens and some have attained remarkable success, yet a considerable proportion of them fail to show progress after they return to their reservation homes.

Two special committees of the board are studying the problems connected, first, with the condition, conduct, and future of the non-reservation schools, and, second, with the more effective care and use of the students who return to the reservation after their school life. These committees will report during the coming year.

DELINQUENCY.

In the course of their inspections some members of the board have had their attention directed to juvenile delinquents. Under the laws of some States such boys and girls possibly could be sent to a State institution, but there is a disinclination on the part of State authorities to take in Indian juvenile delinquents. They contend that Indians are wards of the Federal Government and are not taxed, and therefore, State officials argue, the Government should take care of its juvenile delinquents. This board is studying the whole question of Indian juvenile delinquency to offer a practical solution of

this problem.

Some provision for adult delinquents is also a vital necessity. We have found superintendents of isolated reservations, far removed from the offices of Federal attorneys and from Federal courts, seriously embarrassed in their efforts to preserve peace and good order on their reservations because, by reason of their isolation, they practically are without any effective police and court aid. If superintendents could be clothed with the powers of a committing magistrate with authority to sentence petty offenders to brief terms of incarceration in simple jails or guardhouses provided on reservations for that purpose, there would be a decided decrease in adult delinquency.

Against the argument that a superintendent who had the authority of a committing magistrate could abuse his power by taking personal revenge on some Indian is the fact that on some reservations the superintendent is openly defied by malfactors who know and boast that he has not the strong backing of legal authority in his efforts

to maintain good order.

EFFECT OF WAR ON THE SERVICE.

The Indian Service has not escaped the disturbing influences of the war, for the bureau has lost many good men and women, some of whom were particularly well qualified for their work. A number entered the military service of the Government and others resigned to take up more lucrative employment in civil life. The Washington office and every school and agency are short-handed, with little prospect of any betterment in the conditions until after the close of the war.

The medical division of the bureau, in particular, is most seriously handicapped by reason of the loss of nearly one-third of its staff of surgeons and physicians. Almost all of the men who left enlisted in the Medical Department of the Army. Probably the loss of these medical men is the worst feature of the effect of the war on the Indian Service. At a pinch the Indians could get along for a time without farmers and teachers, but tuberculosis, trachoma, pneumonia, and infantile disorders must be promptly attended to.

The officials in charge of the Indian medical service have endeavored to meet the emergency caused by the depletion of the staff by making contracts with physicians residing in the neighborhood of Indian jurisdictions, by transferring Indian Service physicians from schools and agencies where local medical service could be secured to isolated reservations, and by raising the age limit for eligibility under civil-service regulations from 40 to 50 years. But notwithstanding these commendable efforts to provide sorely needed medical service for the Indians the situation continues to be serious, particularly in those localities where tuberculosis is prevalent.

Obviously the time is inopportune to suggest any immediate changes in policy or organization with the purpose of increasing the efficiency of the medical staff, but, with the end of the war, there undoubtedly will be changes, some of them radical and far-reaching, in every department of the Government, and it might be well to give some thought to the future of the medical division of the Indian Service. We have heard with much pleasure that the Indian Office is considering the probability of securing for the service a number of the young medical officers who will return to civil life from military hospitals, experienced surgeons of the highest type, who can be placed as head surgeons in the Indian hospitals.

But this hope may not be realized unless the salaries in the medical division are materially increased and the division reorganized so that it will be almost as independent in its functions and authority as is the United States Bureau of Public Health Service. We are of the opinion that there should be connected with the Indian Bureau a corps of surgeons and physicians having such independent authority that it could enforce quarantine and conduct a health campaign in the Indian country with or without the cooperation of the reservation or local civil officials.

The rate of progress toward civilization of the Indians is obviously affected by their health and living conditions. This fact has long been the center of one of Commissioner Sell's most aggressive activities, but he has been hindered in his "health drives" by an undermanned medical division, the lack of specially trained field matrons and nurses, and the indifference of the white neighbors of Indian centers to any effort put forth to help the wards of the Government.

INDIAN SOLDIERS.

Before the United States entered the war against Germany this board recommended the organization of a regiment of Indian scouts for patrol duty along the Mexican border. The entrance of this country into the great war inspired Indians to enlist and to-day there are thousands of Indian soldiers and sailors in the Army and Navy. It is estimated that considerably over 5,000 Indians have entered the military service of the Government. The lists of their students and graduates given publicity by the nonreservation schools show that the great majority voluntarily enlisted. These young Americans joined the colors not as a segregated unit but as individuals. They are scattered all through the service, and reports indicate they make good soldiers.

Indian mothers and sisters in every jurisdiction are active in Red Cross work. Indians have been liberal subscribers to Red Cross and

other funds. They have bought millions of dollars worth of Liberty bonds and are active in all enterprises related to the conduct of the war.

THE NEW ACCOUNTING SYSTEM.

In compliance with an act approved May 18, 1916, the United States Bureau of Efficiency installed an accounting system for the United States Indian Service, which was put into effect July 1, 1917. The reason Congress directed that the Bureau of Efficiency should devise and install this new system of bookkeeping and accounting was that Congress wanted to have always at hand definite information concerning the cost of operation and management of every unit in the Indian Service. As an accounting system, pure and simple, the one now in use is, perhaps, beyond criticism. It covers every phase of the administration of Indian affairs except the most important of all—the human element.

The Indian Service is peculiar in that it has to do with the intimate personal affairs of tens of thousands of partly civilized people. The superintendent of a reservation, in the performance of his ordinary duties, must exercise the functions of a Government official having executive authority, a business man, agriculturist, administrator, counselor and educator, and should be a good friend and family adviser. To properly perform his multitudinous duties he should have ample time to go over his reservation and keep in close touch with

his Indian people.

With few exceptions all superintendents are the special disbursing officers and custodians of the Government and of Indian property in their charge. They are under bond. The new system of accounting has developed this interesting situation: It has made accounts and reports of more importance than the welfare of the Indians. On many reservations the superintendents and their clerks are not expert bookkeepers and the year's experience under the new system has demonstrated the fact that it requires a high degree of accounting skill. This system calls for such a number and variety of reports and covers such a variety of intraunit transactions and, to the inexperienced superintendent and clerk, is so complicated that on many reservations the superintendent is tied to his desk until late in the evenings and frequently all day Sunday keeping books, using the time he should be attending to the personal needs of the Indians.

If every school and agency had a skilled bookkeeper as its fiscal agent and disbursing officer, under bond, there would be no excuse for bringing this matter to your attention, because, as we have said, the new accounting system as a system, pure and simple, is beyond criticism. But any bookkeeping system, any method of accounting, no matter how good it may be, makes for inefficiency if it takes up so much of the time of superintendents that they are not able to give to

the Indians a close personal attention.

MEETINGS.

The board held four meetings during the year; a special meeting at the home of Commissioner Ayer, Lake Geneva, Wis., July

25-27, 1917; the regular semiannual meeting at Lake Mohonk, N. Y., October 22-23, 1917; the annual meeting at Washington, January 29-30, 1918; and a special meeting at Portland, Oreg., April 8-11, 1918.

At the annual meeting Commissioner George Vaux, jr., of Philadelphia, Pa., was reelected chairman of the board, and Commissioner Malcolm McDowell, of Chicago, Ill., was reelected secre-

tary, both for the ensuing year.

Commissioner Frank Knox, early in the war, enlisted in the military service after a course in the officers' training camp at Madison Barracks, N. Y. He was commissioned a major and is in command of the Second Battalion, Three hundred and third Ammunition Train, Seventy-eighth Division of the American Expeditionary Forces in France. Because of his foreign service it is not possible to secure his signature to the report.

PURCHASE OF SUPPLIES.

Chairman Vaux attended the lettings of contracts for supplies for the Indian Service at the Chicago warehouse. The abnormal business conditions caused by the war is making it more and more difficult for the Indian Office to meet the demands of schools and

reservations for necessary supplies.

In a majority of lines there appeared to be a reluctance on the part of merchants, many of them old bidders, to enter into a year's contract to supply the needs of the Indian Service. This may be attributed almost entirely to the condition of the markets, the merchants not caring to quote prices unless they had the goods on hand or had every assurance of being able to get them. Because of the regulation of production by the Government, and the commandeering for the Army and Navy of existing supplies and future outputs of factories, mills, etc., the Service was considerably handicapped in covering its needs.

Notwithstanding this it was able to contract for a greater part of the essential supplies. Prices maintained an advance over the previous year, as was to be expected by reason of abnormal conditions. A noticeable reaction in prices, however, appeared in quotations on medical supplies which seemed to be caused by a readjustment of the upset conditions which existed when imports from certain foreign sources were stopped after war was declared by

this country.

The board wishes to express its appreciation of the prompt response to the suggestion of Commissioner Ayer, made to you in March, that, if possible, substitutes for white flour, which had been purchased for the Indian Service under contract and practically all delivered long before the Food Administration regulations were promulgated, be used in the Indian schools.

The immediate cooperation of the Interior Department and the Indian Office provided ways and means by which a large quantity of

white flour soon became available for the use of our allies.

During this year we have had the active cooperation, not only of the Indian Service men in Washington but in the field, and we

desire to express to you our appreciation of the many courtesies we have received from the Department of the Interior and the Bureau of Indian Affairs.

Faithfully, yours,

GEORGE VAUX, Jr., Chairman.
MERRILL E. GATES.
WARREN K. MOOREHEAD.
SAMUEL A. ELIOT.
EDWARD E. AYER.
WILLIAM H. KETCHAM.
DANIEL SMILEY.
ISIDORE B. DOCKWEILER.
MALCOLM MCDOWELL.

To the Secretary of the Interior.

APPENDIX A.

REPORT ON INDIAN LABOR IN ARIZONA, BY EDWARD E. AYER.

CHICAGO, ILL., August 11, 1917.

My Dear Sir: The rapid development of the long-fiber cotton industry in the Salt River Valley, Ariz., in the vicinity of Phoenix, where the recent crop survey shows 36,000 acres in this crop, opens a new and desirable field for Indian labor.

I understand that last season in this same section, where a cotton crop on about 8,000 acres was picked, that many Indians, especially Papagoes, were employed; that they gave good satisfaction to the cotton growers and received good pay for their work. A large number of additional pickers will be needed this year, and the Pima, Maricopa, Cocopa, and Yaqui Indians have shown themselves particularly adapted to this work.

I am advised by those in touch with the cotton situation that the various cotton growers' associations will guarantee the Indians good wages and general good treatment. What our Indians need most is to be taught to work. There are nearly 50,000 Indians in Arizona, and a very small percentage of them do any useful work. It seems to me that this opportunity for obtaining remunerative labor for a large body of the Indians of that section, at work which they can do, and with good pay, should be given prompt and favorable attention.

To accomplish this, in my judgment, a man should be detailed from the Indian Department to have charge of all Indians at work in the Valley; that is, to look after their interests; to see that they have proper tents, water, fuel, and other conveniences, as well as proper pay, and to advise them. There will be several hundred Indians from southern Arizona employed there this year. They will work for many different people, some of whom may only be interested in getting all they can out of the Indians and furnishing them as little as they can. This man should be sent there immediately in order to familiarize himself with conditions. He should put himself in communication with the different Indian agents in Arizona and try to get 25 or 30 Indians from each tribe to go to Phoenix and

make a trial there. They could be taught how to do the work by teachers from the Pima and Maricopa Tribes. Cotton picking begins about September 15 and continues for five or six months. They would therefore have steady work for at least five months, and many would find employment for the rest of the year. There will be about 7,000 pickers needed this year, and the number will increase rapidly from year to year. It is not hard work and can be done by men, women, and children, and so they could bring their families. The Navajo, Walapais, Apaches, etc., could all reach Phoenix by the Santa Fe Railroad and those from the south by the Southern Pacific. The whites, of course, would advance the money, if necessary, for railroad fare and start them with some provisions. Of course this is only a trial, but I feel certain that some would come again, and eventually—say in 10 years, or perhaps much less time, from now—the cotton growers of Arizona could depend upon help enough from this source to harvest their crop and the Indians be much benefited.

The man to oversee this work should spend the other seven months of the year among the different tribes of Arizona, New Mexico, and eastern California, advocating the work and arranging for the coming season. The ideal man for this work would be Mr. Thackery, but the Indian Department has among its splendid Indian agents a

great many men who could do it.

Finally, the Government is vitally interested in this Arizona venture in long-staple cotton, as there will always be a shortage of it, because there is so small a section of the world where it can be grown.

Respectfully submitted.

EDWARD E. AYER.

Hon. Franklin K. Lane, Secretary of the Interior.

APPENDIX B.

REPORT ON MENOMINEE INDIAN CATTLE, BY EDWARD E. AYER.

CHICAGO, ILL., December 7, 1917.

Sir: I desire to make the following recommendation in regard to placing cattle on the Menominee Indian Reservation. In January, 1914, I made the following recommendations in regard to placing cows on the reservation:

In the many thousand acres of land on this reservation there is an enormous amount of food for cows and young stock growing and going to waste every year. I think the reservation should be investigated with the view of starting a trial herd there of 1,000 head of cows, to be herded by the Indians with their ponies, and to be allowed to increase to the full extent, that hay could be cut in certain protected districts to get them through the winter. There is certainly enough food there for nine months of the year for several thousand head; and, at the price that cattle are now and always will be, there will be a large profit in turning off the 2 and the 3 year old steers each fall to be sent down, if not fat enough for beef, for feeders. It seems too bad, in the present condition of the meat supply of our country, that enormous districts like this should be allowed to go to waste.

I can not help but feel that it has been a great mistake that this recommendation was not carried out. The whole country was short

of beef at that time, has been growing shorter all the time, and with the great efforts being made by the Government for the last three years to make every bit of grazing land available, that this great tract should be left tenantless has certainly been a great mistake; and if this 1,000 head of cows had been put on the reservation at that time, the second bunch of 2-year-old steers would now be ready to be turned off and I will say that a grass-fed 2-year-old generally weighs from 800 to 900 pounds. I am paying now 10 cents a pound for just such feeders to put on my own farm. You would have to feed each head of cattle on the reservation a ton and a half of hay each year to carry them from the time the feed disappeared in the fall until it comes in the spring. I think it would be perfectly safe, even now, to start in the spring with 500 head of cows. I recommend 2-year-old Herefords from the Dakotas, fairly well-bred stock, and all with calf. They could easily provide next summer enough hav for wintering that many head.

The economical way of raising hay in that country would be to purchase two International 10-20 traction engines. Each one of these engines will haul three plows and, in putting in grain and seed, will run a 16-foot seeder, drag a roller about 2½ miles an hour. When it comes to mowing, they will run three mowers, cutting an 18-foot swathe at the same speed. All we would have to use teams for would be for stacking the hay and they could be brought in from the different Indians for that purpose or from the mills, being only at a

very short distance.

Of course, there would have to be shelter for the winter and the places for grain and hay would have to be fenced. The shelters should be built in the immediate vicinity of the hay land. In fact, I think that the hay land we have there now at the farm would

largely supply the hay for the first year.

With this report, I submit a map showing the condition of the grazing land and indicating two sections of 1,280 acres of land that could be plowed at any time, being prairie land of good soil for hay, and there is a great deal more of the same kind of land; in fact, there is hay land enough to winter any amount of steers that you would ever want up to several thousand head, which land is now

going to waste.

In my judgment, it is utterly impossible for the Government to make use of this pasturage except with a tribal herd. An experienced cattle feeder, raiser, and grazer at the head, with the help of a few Indians, would do this work; but, as fully understood, there would not be one in ten who would keep his stock up or know how to take care of it if these cattle were scattered among the individual Indians. Of course, there is plenty of room, and as fast as the farmers would get the requisite knowledge small bunches could be turned over to them, if desired. Having the herd there would be an educational object lesson and would eventually be a great advantage to the tribe.

Respectfully submitted.

EDWARD E. AYER.

Hon. George Vaux, Jr., Chairman. 82607°—int 1918—vol 2——23

APPENDIX C.

REPORT ON INDIANS FOR FOREST RANGERS, BY EDWARD E. AYER.

CHICAGO, ILL., December 10, 1917.

SIR: I desire to make the following recommendation, which seems to me might relieve quite a number of capable men that could do better service for the Government in its present trials than they are doing now, and I think the Indians could be selected that would practically do the work of 75 per cent of the rangers in the employ of the Government.

I therefore recommend that there be selected from the different Indian tribes (I would suggest from those being well mounted) educated Indians up to the extent of 75 per cent of the men employed by the United States on park and wood ranges, and that they replace three-fourths of the white men in that service. I feel quite sure that they will do as good service as the whites do up to that number and under leadership of the strongest men among the whites.

In talking with Red Fox, Blackfoot interpreter, and other Indians, I suggested this, and he said he would certainly like to become one to enter this service and that Black Hawk, his chum, would be glad to be another. I thought it would be entirely practicable, and, of course, while I do not know how reliable these men are or whether or not they would make good rangers, these matters could be easily determined.

Respectfully submitted.

EDWARD E. AYER.

Hon. GEORGE VAUX, Jr., Chairman.

APPENDIX D.

REPORT ON THE CHOCTAWS IN MISSISSIPPI, BY WILLIAM H. KETCHAM.

DECEMBER 1, 1917.

Sir: I have the honor to report that I visited the Choctaw Indians of Tucker, Neshoba County, Miss., September 30-October 9, and two

settlements in Leake County, October 10 and 11, 1917.

The bulk of the Mississippi Choctaws live adjacent to the towns of Tucker, Stratton, and Union, in Neshoba and Newton Counties; in fact, practically one-half live in Neshoba County. A number live in Leake, Scott, Kemper, and Attala Counties, and there are families scattered over various other portions of the State. It is claimed by some that there are to-day in the States of Mississippi and Louisiana about 1,700 full-blood Choctaw Indians. This claim may be very nearly correct. There can scarcely be less, and there may be more, than 1,000 full-blood Choctaws in Mississippi. Mr. John R. S. Reeves, special supervisor of the Indian Office, Washington, D. C., has made a valuable report on the Choctaws in Mississippi, particularly as regards their numbers and their land holdings. (See H. Doc. No. 1464.)

During my stay at Tucker I met a great many Indians, three to four hundred, most of them from the immediate neighborhood and from Stratton and Union, and some from Scott and Leake and other counties. I had an opportunity to observe them closely and to make careful inquiry into their condition. I visited a number of houses in the vicinity of Tucker which, despite extreme poverty, did not appear to be uncomfortable. They were clean and the occupants seemed to have the bare necessaries of life, such as one might find in the cabins of very poor white people. The grounds around the houses were well kept and in some instances flowers were growing in profusion and there were evidences of gardening and farming on a small scale.

In Leake County I visited a number of families, some in the cotton patches, where they were at work, and others in the homes. The few houses visited were clean and well kept and would correspond to the homes of cleanly white people in very poor circumstances. Wherever I went I found Indians suffering from tuberculosis. I am convinced that these Indians, generally speaking, do not have sufficient food and that their meals are very irregular and by no means frequent.

GENERAL CONDITIONS.

I had visited Tucker the year before, and since that visit it seemed to me I could see an improvement in the dress of the men, particularly the young men. The majority were neat and made a good appearance; as for the women, they, generally speaking, were neatly but poorly clad. It is evident, however, that in many instances they do not have sufficient clothing to keep them comfortable during the cold weather.

The number of those who own land is so small that the question of landholding may be omitted from any survey made of these people.

They are in urgent need of medical attention and medicines. Very often the physician will not visit a sick Indian until an exorbitant fee has been paid or made secure in advance. The result is that those who are ill rarely have more than one visit of a physician and many can have no attention whatever. This condition applies to the druggist and medicines required by the sick. The sick usually have to depend on the uncertain charity of white people for proper food, medicines, and medical attention.

The Choctaws of Mississippi have a very good name as regards honesty, truthfulness, cleanliness, and general morality. They are

in a sense industrious yet inconstant and unthrifty.

In many instances they still marry according to Indian custom and the old ideas concerning marriage are much in evidence. Men and wife frequently separate and contract new relations. The fee for the marriage license required by the State of Mississippi is partially responsible for marriages in Indian fashion, but there are a number of Indians who have not accepted Christianity and who still prefer the old customs. Although the Christian Indians are well informed on Christian ideas concerning marriage, they now and then fall into the habits of their non-Christian relatives and friends. Apart from this, probably, as regards morals, the Mississippi Choctaws are superior to many Indian tribes and to many white people.

INDIANS ENGAGED IN FARMING.

The Mississippi Choctaws realize that they must earn their bread by the sweat of the brow. They seem willing to work and there are certain things they can do particularly well. They are adepts with the shovel and ax, and understand the growing of cotton; the women appear to be capable of doing well the work that women are accustomed to do. The chief fault of the men is that they too easily take a day off and permit trifles to interrupt them in their work. For this reason they are not successful as day laborers for concerns that require their employees to begin work at a certain hour and to put in a fixed number of hours a day and a fixed number of days per week.

For the work they are accustomed to do they receive very small compensation and they are practically helpless in the event that their employer chooses to cheat them or to impose on them. This holds true in the growing of crops on shares; in fact, in everything they do. It is the white man who keeps the accounts and who dictates the settlements; and some white men are honest and some are not, and because of his nature and the conditions of society in which he lives, the Indian is practically without any redress and has no one to whom to appeal when he is browbeaten and cheated; hence he is

practically a peon in the make-up of Mississippi society.

Whatever the Indian needs for farming must be supplied by the landlord and on the landlord's terms. If he could remain on his farm and work it properly, if he could be assured a square deal on the part of the landlord, and, finally, if he could break away from Indian custom so far as to refuse to divide with the improvident what he lays up over and above his needs of the moment, he could make a living and take care of himself. Usually, however, he has to neglect his farm, now and then, to get a day's labor somewhere in order to earn the necessary cash for a few day's actual living expenses, and such interruptions account largely for his failure to reap a normal harvest. Hence (a) he needs some one to stand between him and the unscrupulous employer; (b) he should receive aid from the Government for one or two years; and (c) means must be devised to educate him up to the point of ignoring such Indian customs as result in the indolent living off the thrift of the industrious.

LACK OF EDUCATIONAL FACILITIES.

As to education, most Mississippi Choctaws do not appear to have even the rudiments of an English education, and yet, remarkable as it may seem, a great many can read and write the Choctaw language. All, without exception, speak the Choctaw language, and, while a number of the older people speak English after a fashion and understand it for ordinary purposes, the majority, particularly the women, seem loath to make use of it—the result, no doubt, of bashfulness and a certain indolence, it being easier to use the language that comes to them naturally than to exert themselves to master the white man's speech.

As for schools, while it is true that they have not many opportunities in this regard, it is just as true that they fail to make use of

the opportunities they have. The Mississippi Choctaws would not wish to send their children away from home to boarding schools and they do not send them regularly to the day schools. In the day school conducted by the Catholic Church at Tucker there is an enrollment of 40 and an average attendance of 10. It is a matter of note that in Oklahoma the removed Mississippi Choctaws are loath to send their children to boarding schools and are irregular in sending

them to the day schools.

In fact, it is a question as to whether it would be advisable for these children to be educated in a boarding school. In the boarding school they would learn more and be better cared for, but they would become accustomed to conditions and to comforts they can never enjoy when they return home, and this would tend to make them dissatisfied and unfit them for life amid conditions they must necessarily face. Mississippi offers few or no opportunities for an educated Indian. Such an Indian probably could find no suitable employment of any kind. In Mississippi if the Indian does not wish to associate with the negro (and experience proves that he does not) he must live exclusively with his own people. There are certain kinds of manual work open to him, but, generally speaking, it is on the farm that he must earn his daily bread.

BOARDING SCHOOL UNDESIRABLE.

Having talked this matter over very carefully with well-meaning people and with the older Indians, I advise strongly against the establishing of a boarding school for these people. If there are certain individuals found here and there who desire a higher education they can be sent to Carlisle or other similar schools and later they may be able to make use of their education somewhere in the North or West, or they might go back to their people as teachers. I am not prepared, however, to advocate a measure which, if it prove a success, must necessarily mean that the Indian will have to leave his native country (and the Choctaw is religiously attached to his native Mississippi) and become an exile among strangers.

As for attendance at day school, this should be compulsory if it be possible to make it so, but it should not be compulsory so long as the child and the parent are underfed and not comfortably clothed. and so long as parents at times really have need of the services of their children at home; so long, in fact, as the problem of supplying a half-starved people with sufficient food remains unsolved and adequate means for the conservation of their health are unprovided.

Everyone with whom I talked on the subject at once said that it would be folly to distribute cash payments among these Indians; that in two days every cent would be in the hands of the whites.

If the Indian were given land, probably he would not be able to maintain his ownership of it unless trained to this by some sort of supervision. The question of taxpaying seems to have been the bane of the Mississippi Choctaw. An old Indian said to me that formerly he owned a number of horses but that the white authorities took all his horses away from him, and he found out afterwards this was done because the State had placed a tax on horses. I asked another Indian if he would like for the Government to give him a team of mules, and he said no, he would have to pay tax on the mules, and he would lose them, and also that the mules would have to be fed, and this would be an additional expense to him. He thought he could make out better by farming with a hoe, because the hoe did not eat and would not be taxed.

RECOMMENDATIONS.

I am not prepared to advocate a reservation for these people, because the day of the reservation would seem to have passed. The reservation, in the course of time, would be broken up and allotted, and 25 or 30 years from now the Indians would be in the same condition they are at present. Under the circumstances I think the best that can be done for them is to help them get on their feet and guide their steps until they can walk alone.

I therefore recommend—

1. A special agent for the Indians living within the boundaries of the State of Mississippi, with headquarters at Tucker or Stratton or Union, whose duty it will be to visit the Indians throughout the State, inquire into their needs, advise them, and stand between them and the rapacity of the white man. The agent should supervise their agreements with individual whites, procure employment for them, and see that they receive their wages.

2. A doctor, located at one of the above-mentioned places, who could be relied on to visit the Indians gratis in case of need. Medi-

cine should be supplied gratis.

3. A field matron, located at one of the above-mentioned villages, to look after the sick, visit the homes, and give advice to the women in all matters pertaining to cleanliness and health. The agent, doctor, and matron should be supplied with facilities for transportation.

4. Under the supervision of the agent the Indians should lease farming lands, and the Government should supply them with implements, necessary stock, and means of subsistence for one or two years. The Indians should not be allowed to give away, sell, or mortgage anything that has been furnished them by the Government. They will need subsistence so that they can devote their entire attention to the growing of their crops. Probably at the beginning of the second or third year they may be able to sustain themselves and provide their own seed. Whenever it is feasible and advisable to do so the agent should make arrangements for individuals to purchase on easy yearly payments the lands they occupy. Under his careful supervision the Indians might be able, in the course of time, to acquire title to the lands they occupy, and if they thus succeed in purchasing their lands it is possible that in the future they will understand how to meet the obligation of taxpaying.

5. As for schools, for the present, the Government should assist the day schools that are now in operation and provide new ones in localities where a sufficient number of families is located. The agent and the field matron may devise some plan whereby the Indians will be

induced to send their children to school regularly.

6. It would be good policy for the Government to establish an

experimental farm near the center of Indian population.

7. It would be advisable, as a matter of economy, that a physician be appointed as the first special agent and the office of agent and

physician united. It is not at all unlikely that, within a couple of years, an active, conscientious agent will be able to induce the majority of the scattered Indians to remove nearer the center of the Indian population. This would simplify the work and reduce ex-

penses.

In conclusion, while the treatment the Indians of Mississippi have received at the hands of certain unscrupulous persons can not be too severely condemned, it is only just to say that many citizens of the State take a very kindly interest in the Choctaws and but for the assistance that has been rendered them year after year by many white people the race long since would have perished entirely.

Respectfully submitted.

WILLIAM H. KETCHAM.

Hon. GEORGE VAUX, Jr., Chairman.

APPENDIX E.

REPORT ON THE HEALTH DRIVE IN OKLAHOMA, BY WILLIAM H. KETCHAM.

Washington, D. C., January 1, 1918.

SIR: I have the honor to report as follows on certain activities in connection with the efforts that are being made by the Indian Bureau to improve health conditions among the Choctaws and Cherokees of Oklahoma.

The Commissioner of Indian Affairs, having determined on the inaugurating of a "health drive" among the Choctaws and also among the Cherokees, appointed six field matrons for the Choctaw country, to work under the supervision of Dr. W. W. Van Cleave and Mrs. Elsie E. Newton, and five matrons for the Cherokee country, to work under Dr. R. E. L. Newberne and Mrs. Wilma Rhodes. The matrons were instructed to visit every family, to make a detailed survey of health conditions and incidentally to gather in such relevant information as could be obtained. The Choctaw matrons began their work on July 5 and the Cherokee matrons on August 3.

In the meantime the commissioner had the Indian Office pamphlet "Indian Babies: How to Keep Them Well," translated into the Cherokee language and printed and circulated. I believe the Indian Office pamphlet "Tuberculosis Among the Indians" is also to be translated into Cherokee. For the translating of these pamphlets into Choctaw the commissioner appointed Peter J. Hudson, the Choctaw tribal interpreter, and the Board of Indian Commissioners delegated me to cooperate with Mr. Hudson in this work, which was done for the most part in McAlester and in Oklahoma City, in a period of about three weeks. I did much of the proof reading after my return to Washington. The pamphlets in Choctaw have been printed and circulated extensively and I am informed that they have been very favorably received by the Choctaw-speaking people.

The Commissioner of Indian Affairs visited Muskogee in the interest of the "health drive." Everyone associated with the movement was called into Muskogee. I was invited to be present and spent

August 16 and 17 in attendance on the meetings which the commissioner held. These meetings, at which were present most of the employees of the Five Civilized Tribes Superintendency, were profitable and enlightening. The physicians and matrons gave an excellent account of themselves. The information they produced revealed a far more serious condition than my report had indicated. Commissioner Sells, thoroughly alive to the situation, imparted his enthusiasm to his audiences and aroused a local interest in the drive. At the request of Mrs. Newton, I visited Antlers, Idabel, and Broken Bow to inquire into the work the matrons were doing in these sections. Invitations to visit other localities I had to decline for lack of time. I was most favorably impressed by what I saw. The work everywhere was being pushed zealously and intelligently and the people were responding accordingly. Nothing that has as yet been done for the Choctaws has met with so much approval and applause not only from the Indians, but from the white people, as has this work in the interest of health. Of course, there are those, both Indian and white, who criticized and voiced objections; however, no effort put forth for Indian welfare has been so popular with the people generally as has this.

The drive brought to light, among other things, proof positive of the contention I have been making for some time that a large number of Choctaw children have been attending no school whatever. The general estimate of the "health drive" is very aptly expressed in the following words of the principal chief of the Choctaw Nation:

Of all things instituted for the good of our people the "health drive" has been of more real benefit than all others put forth in their behalf. Somehow we feel the good effects of this work more than that of any other branch of the service. The work of Mrs. Newton and her corps of good, earnest women is accomplishing great good. Mrs. Peters in this district has won the friendship of our people, and I say here, without reservation, that she has done more real personal good for the Choctaws than anyone else ever sent down here for their instruction and betterment. [Mrs. Peters had charge of the Antiers district. The same could be said of Mrs. Lewis of Broken Bow, of Mrs. Grommett of Idabel, and of every other matron in the service.] I hope you will support the "health drive" among the Choctaws, and, if possible, make it a permanent institution.

It is a calamity that the Commissioner of Indian Affairs did not have at his disposal sufficient funds to make the work of the matrons, which is now discontinued, permanent. At the present time there is not a single matron in the field to continue the work so auspiciously begun.

RECOMMENDATIONS.

1. I recommend that every effort be put forth by the board to assist the commissioner in obtaining from Congress an appropriation that will enable him to establish a permanent organization for health work among the Choctaws and Cherokees, and, furthermore, to inaugurate similar work for other tribes among which tuberculosis is prevalent.

2. I again call attention to my recommendations in regard to the Talihina Sanitarium. Despite the intelligent efforts of those in charge, the sanitarium is not reaching the people and is not accomplishing what it should, and never will, until (a) a Choctaw-speak-

ing official of some sort is connected with the institution, (b) cottages or tents are put up for accommodation of the older patients, and (c) the aid of the State is obtained in compelling such Indians as are a menace to those among whom they live to remove to the sanitarium and remain there until such time as they may be permitted by the authorities of the hospital to return to their homes.

3. I recommend that the pamphlets above mentioned, and particularly the pamplet on tuberculosis, be translated, as soon as possible, into the languages of such tribes as are accustomed to read their own language, and that they be distributed among them and systemically

read to them at church and school and other gatherings.

Respectfully submitted.

WILLIAM H. KETCHAM.

Hon. GEORGE VAUX, Jr., Chairman.

APPENDIX F.

REPORT ON THE BLACKFEET RESERVATION, MONT., BY MALCOLM McDOWELL.

Washington, D. C., November 21, 1918.

Sire: Pursuant to a resolution of the Board of Indian Commissioners I made a survey of conditions on the Blackfeet Indian Reservation in northwestern Montana, arriving at Browning, where the agency headquarters are located, September 7, 1917, and remaining

on the jurisdiction until September 20, or 13 days.

The outstanding impression made by the survey is the atmosphere of optimism which pervades the Blackfeet Reservation, and this not-withstanding some conditions which can and ought to be remedied and some situations which should be cleared up. There is an air of animation, a sense of progress, and a feeling of hope in that Indian community which were so contrary to reports that, for a time, I feared my judgment was warped by the strong liking I formed for the Blackfeet almost immediately on my arrival on the reserve.

Just as cotton promises to solve the economic problems of the Pima, Papagos, and other Indians in southern Arizona, so hay promises to establish the Blackfeet Indians on a sound, progressive basis. In 1915, as the records show, the full-blood Blackfeet produced about \$9,000 worth of hay, an average of about \$30 to the family. Last year—1916—these full-blood families sold about \$28,000 worth of hay, or \$86 to the family, and this year they have produced over

\$55,000, or an average of \$193 to the family.

A CATTLE COUNTRY.

This reservation covers an area approximately 50 by 60 miles in the northwestern section of Montana abutting Glacier National Park, which lies to the west. It is essentially a cattle grazing country and parts of it are well adapted to sheep raising. Although there is scarcely a month in the year, so I was told, in which there is not frost, the hardy grains and vegetables grow well and with anything like a moderate amount of precipitation the native grass covers the land

with its cattle-fattening green. This grass cures on the land, making first-class cattle food. Timothy grows well and some alfalfa and flax

are grown on the river bottoms and in the irrigated areas.

Most of the progressive mixed breeds are grouped in the northern part of the reservation, while the majority of the full bloods live along the creeks and streams which flow from the Rocky Mountains in the southern and western sections. The mixed breeds who have gone into the cattle business, and there are a number of them, have made marked successes. Some of them carry large lines of credit with banks. It was intimated to me that some of the mixed breeds really were but the agents of bankers and capitalists, who went through the form of loaning money to conceal the fact that the Indians did not own the cattle they ran, the outside moneyed men thus being able to run thousands of head of cattle on Indian land without making adequate payment for the priviledge.

But I was unable to locate one single fact to bear out the intimation and all of the agency officials declared there was nothing to the report. The prosperous condition of the ranches and ranch homes of the mixed-breed cattlemen, their industry and activity, their talk, bearing, and other evidences of self-respect and independence, were so marked that it seemed plainly evident they are cattle owners

though they may be heavy borrowers from banks.

There has not been the best of feeling between the mixed bloods and their full-blood brothers, but in this respect the Blackfeet are not unique—such a condition is common to many tribes. There are two factions on the reservation and much bitterness of feeling caused strained relations and made it difficult to get the tribe together on any constructive policy. But one of the main differences has practically been removed, for the sentiment in favor of selling the Ten Mile Strip is virtually unanimous and apparently the proposition is agreeable to the tribe, the Indian Office, and Congress.

THE TEN MILE STRIP.

Along the east end of the reservation is the Ten Mile Strip, which has long been a bone of contention on the reservation and in Congress. It is proposed to sell the unallotted surplus land in this section, the proceeds to be used to purchase cattle for the Indians. This matter has been before Congress (Senator Walsh has a bill pending) and the department a number of times, but in the early part of this year all parties concerned got together and now it is agreed that it will be a good thing to sell this land provided the money is used to set the Indians up in the cattle business.

If the Walsh bill is enacted and the land in the strip sold the real problem will be the intelligent distribution and disposition of the purchased cattle. It certainly would not be wise to distribute cattle, pro rata, among the full-blood Indians with the expectation that every family would use its issue to start a herd and make a success of the venture. There should be an intelligent discrimination exercised in issuing the cattle, for about one-third of the 300 and more full-blood families is incapable of handling cattle.

This group is made up of the old, sick, disabled, and unprogressive Indians, many of them on the ration rolls. Another group,

comprising about a third of the full bloods, is made up of Indians who, under supervision, probably would be able to care for cattle properly, and the balance of the full bloods, about a third of all, not only are experienced cattle people but are, or would be, equipped

with barns, corrals, feed lots, hay, etc.

Supt. Thomas Ferris, who before becoming superintendent of the reservation, was its stock supervisor for some years, and to whom the Indians and white men in that country give most of the credit for the progress recently made by the Blackfeet, sketched out his plan for distributing the cattle should steers and cows be bought for the Indians. He first would turn all the cattle into the tribal herd and issue from it. To the Indians who are fully competent to raise and care for cattle he would issue forthwith; to those who are capable but who have not shown their capability or who are not prepared with sufficient equipment he would issue only after such Indians had built barns, feed lots, etc., and had sufficient hay in stacks for the first winter's feeding, and then he would keep a supervising eye on them, teach and encourage them until they had graduated from the probationers' class. The cattle for the old, infirm, disabled, and hopelessly unprogressive he would keep in the tribal herd, branding them with the Indians' private brands, and giving the owners the proceeds from the increase. Some of the full bloods would want sheep or horses instead of cattle; others would prefer cash to be used to purchase building material for homes, farm implements, and automobiles.

THE TRIBAL HERD.

Two years ago—1915—the Government bought for a tribal herd 1,800 heifers, of which 1,200 were 2-year-olds and 600 were yearlings; in 1916 the herd was increased by the purchase of 700 heifers, and the first calf crop numbered 900. The calf crop this year—1917—will run from 1,100 to 1,200. Exclusive of 115 bulls and this year's calves the tribal herd now numbers about 4,300, and the stock account shows that up to July 1 of this year there has been a net profit on the tribal herd, above labor and hay, of 20 per cent.

tribal herd, above labor and hay, of 20 per cent.

From what I saw and learned the herd is in good condition; the cattle certainly were a good-looking bunch of healthy beef animals,

fat and sleek.

The full bloods did not seem much interested in the herd. They spoke of it in an impersonal way, as though it belonged to some one who did not live on the reservation; apparently they did not have the sense of ownership. Undoubtedly the herd is a success as a tribal investment, but as an object lesson in stock raising, as an incentive to induce full bloods to attempt stock raising, and as an exhibit in teaching the principles of the live-stock industry to the full bloods, I could not exactly see where it came in.

To me its great value rested on the fact that it provides a spotcash market for the hay of full-blood Indians. It was the lever which Supt. Ferris used to pry these Indians from their settled habits of indifference, and, entirely apart from its value as a tribal asset or as an object lesson, the tribal herd has been a big influence for good, in that it has placed something over \$40,000 of real earned money into the pocket of full-blood Indian haymakers this year.

AGENCY LIVING CONDITIONS.

For a number of years the Blackfeet Agency has suffered from frequent changes in its staff. Superintendents are short lived on this jurisdiction, for in the last 10 years there have been six of them. When Commissioner Sells took hold of the Indian Office he found the Blackfeet Reservation one of the worst "situations" in the service and was compelled to make almost a clean sweep, from the superintendent down, of the agency force to remedy conditions. But before and since then the frequent changes, through transfer and other ways, have been the subject of adverse comment in the service.

One cause of these changes is the poor living conditions of the superintendent and employees. Frankly I was shocked when I made a tour of the quarters of the agency staff. I could find nothing attractive in or around their homes. Rather I saw much which was unlovely, unhealthy, insanitary, and unexplainable. The group of agency home buildings consist of a dwelling for the superintendent, three double houses for married employees, and rooms in the agency administrative building for unmarried male employees. All buildings are old; all need paint and many repairs. There is not a bathtub in the place, and the only source of drinking water is a broken pump on the back porch of the superintendent's house. All employees must pack water from that pump. Some of them, to save steps, draw water for laundry and house-cleaning uses from the creek which runs through the ground and in which I saw the swollen bodies of a dog, a pig, and a cat.

I was told it was most difficult to heat the houses, and the thermometer falls to 40 and 50 below in that winter climate. Old-fashioned kerosene lamps are the home lights. There are no sewers or anything approaching a sewer. Water can be found anywhere from 2 to 4 feet below the surface. In short, the agency is located on water-logged land. Much of the furniture is homemade, and the quarters, as a whole, are poorly furnished. In the winter months isolation adds its depressing effects to the inadequately heated homes, and the lack of cheerfulness emphasizes the unattractive living conditions. It is small wonder that Indian Service employees seek trans-

fers from the Blackfeet Reservation.

The little town of Browning, in which the agency is located, is 2 miles from the Great Northern Railroad. I was told that many years ago the agency was located there, before there was a town or a railroad, because of the little brook which waterlogs the agency grounds. I could see no good reason why the agency should remain where it is, 2 miles from the railroad, where the ground lies higher and where the agency should be located.

Granting that this change would cost a fair amount of money, the Government has no right to impose such living conditions on its employees. That country was set apart for the Blackfeet Indians, the reservation was established, and a superintendent and employees are necessary so long as the reservation is continued. They do not require luxurious quarters, but are entitled to decent homes and decent furnishings.

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I know of no other branch of governmental activities whose employees, as a whole, are so poorly housed, so inadequately supplied with creature comforts, as the Indian Service. In the course of my work I have happened on the permanent and field quarters of the Reclamation Service, the National Park Service, the Forest Service, the Agricultural Department, the War and Navy Departments, and other departments, bureaus, and services of the Government, and in almost every case I found them superior in every way to the general run of quarters on the average Indian reservation. On some reservations the living conditions of the employees of the agency are good, but on those same reservations I saw the men and women in charge of the little day schools living in houses entirely unfit for white people. On the Blackfeet Reservation this situation in reversed, for the homes for the teachers of the two day schools are new, rather attractive, and better than any building at the agency.

I would suggest, therefore, that consideration be given, by the proper authorities, to the moving of the agency to the railroad or else to a complete renovation of the agency buildings, the installation of lighting and septic sewage systems, the better furnishing of all quarters, the installation of a water system, and a new building for

the unmarried employees.

INDIANS WANT SCHOOLS.

Although there are 3 Government schools and 1 mission school on the reservation and 18 public schools on and near the reservation, which Indian children attend, the school facilities are inadequate. A heartening evidence of the spirit of progress which seems to be animating the Indians was the earnest request of a number of full bloods for a day school in the Cutbank district and a larger building for the public school at Browning. Indians move to Browning in the late fall so their children may attend the public school there.

This school uses two buildings; one built and owned by the State of Montana and the other by the Government. It has an attendance, at times, of over 15Q, of which all but a dozen or less are Indian children. The Indians attend the school under a contract by which from 15 to 30 cents a day are paid the State for tuition. The State apportions about \$4,500 a year for the school, which last year had an average of but 9 white children in attendance, a striking testimony to the broadmindedness and progressive character of the Montana educators.

Prof. W. H. Watson, now living at Spokane, Wash., was superintendent of the public schools on the reservation for a number of years up to last year. He happened to be at Browning while I was there and said this about the Blackfeet Indian children:

They are brighter than the average. They learn quickly and most of them are enthusiastic scholars. Of late years their parents have cooperated with us heartily. They want their children educated. The public school at Browning is altogether too small. A large, modern building should be erected to care for double the number of children. There would be no difficulty in filling the school to this increased capacity. As the great bulk of the attendance comes from Indian children the Government should build a new school structure. It can be erected for a few thousand dollars, and no money could be spent more wisely or with more certainty of immediate good results. Now is the time to act in this matter, for the school is crowded far beyond its capacity.

THE BOARDING SCHOOL.

The reservation boarding school is 6 miles north of Browning, on the Cutbank River. It has a capacity of 144, which should be increased to 250 at least. The school was not open when I was there. Mr. W. C. Germain, the new principal, arrived but a few days before and faced the situation which was common to all reservation schools—a shortage of teachers, matrons, and other essential members of his staff. The war has opened up opportunities which the underpaid employees of Indian schools are eagerly seeking. Men and women in the Indian school service, whose salaries range from \$40 to \$75 a month, have discovered they can go to almost any town within easy reach and get positions with much better living conditions and which pay from two to three times what the Government pays. If the war continues much longer there is danger that the Indian school service will lose the best of its principals, teachers, matrons, disciplinarians, mechanics, farmers, and other members of school staffs. There is but one way to prevent this—an increase of pay and the bettering of living conditions.

The reservation boarding school has a good-looking herd of Holstein cows, which is housed in a log shack. The incongruity of attempting to teach boys the elements of scientific dairying with a number of fine-bred cattle which are sheltered in a thing misnamed a barn is too obvious to be suggested. Either the cows should be turned loose and the children given canned milk or a decent barn

should be built and that at once.

The dormitories, school buildings, employees' houses, and other structures, except the cow barn, seemed to be of a substantial character, but all of them were sorely in need of necessary repairs. The main buildings were of brick, which was made on the ground. I was not at all favorably impressed with the appearance of the plant, which had been allowed to run down, but I was pleased with the manner with which Mr. Germain took hold of the situation. He seemed to understand his problem and if he is supported by the reservation authorities I believe he will do much to improve conditions and bring about harmony in the school staff.

The Old Agency day school, 22 miles southeast, and the Heart Butte day school, 35 miles south of Browning, are housed in new buildings, but the Heart Butte school should have a well, for water now is taken from a creek below a cattle-feeding lot. Thirty children attend the Heart Butte school and 37 the Old Agency school, all of them full bloods. I was told some of the children came from a distance of from 3 to 5 miles, even in the severest winter weather.

The Holy Family Mission (Catholic) boarding school for boys and girls has an average enrollment of 78. I went over this school with Supervisor Wilson and found the plant in good shape and all

the irrigated land under cultivation.

There are from 250 to 300 full-blood children who can not be taught simply because there are not enough school facilities. All children could attend school if a day school were opened in the Cutbank district, the boarding-school capacity increased, and the Browning day school enlarged.

HEALTH CONDITIONS.

The deplorable health conditions of the full-blood Indians caused Commissioner Sells to start a health drive on the reservation in April, 1916. The campaign was in charge of Dr. C. H. Dewey, an eye specialist, and Mrs. Elsie E. Newton, at that time supervisor of field matrons. The campaign lasted about four months, and just as it was achieving good results the lack of funds brought it to a close. The Heart Butte district, which is entirely a full-blood community, was the center of attack, and Dr. Dewey, assisted by his nurse, Miss Soper, held daily clinics in hospital tents. Mrs. Newton, with two assistant field matrons, made a house-to-house canvass. The party lived in sheep wagons, moving from place to place. Mrs. Newton's force canvassed the homes, induced the Indian women to clean their houses, had houses whitewashed, had roofs repaired and windows put in, and suggested other improvements and repairs. The sick were visited and so many unreported cases of tuberculosis were found that the reservation sanatorium was soon filled to its capacity.

It was found that fully 75 per cent of the homes of full bloods were in bad shape, some of them were in such condition that the houses were pulled down and the families moved elsewhere. The policy was adopted of having the Indians cut and dress logs for building and repairing cabins and in other ways helping on the work. The Indians had no money or resources which could be used for repairs and it was necessary to use the \$5,000 which was placed in the hands of the superintendent for the purpose, making many of

the homes habitable.

In addition to this work face towels were distributed, two for each member of the family, for the common towel is the most effective agency for spreading trachoma. Dr. Dewey examined over 1,800 Indians for trachoma during the campaign, and the result of the good work done by him and Mrs. Newton and their assistants was noticeable when I went over the ground covered by them.

FIELD MATRON SERVICE.

There was but one field matron on the reservation when I was there, Mrs. Sara D. Wilbur, who had an assistant, Miss Hazel Whitcomb, stationed at Old Agency. Mrs. Wilbur lives in a rented house in Browning, which though comfortable as a home is not adapted to her very important work. Every day many Indian women come to her and the little cottage is filled to overflowing. She seems, in all respects, to be well qualified for the position she fills, but the reservation is so large and the Indian families so scattered that with her limited means of transportation she can cover very little ground. She should have more help. She should have office room where she could take care of her charges; she should have an automobile, which would increase her efficiency ten times. There should be a field matron in the Heart Butte district and another in the Cutbank district. In short, the field matron service on the Blackfoot Reservation should be enlarged, strengthened, properly equipped, and

enthusiastically encouraged by the reservation officials. Unless this is done all of the good work of Dr. Dewey and Mrs. Newton, and all the energy, time, and money put into their campaign will be dissi-

pated.

The reservation hospital stands on one of the most lonesome spots in that country. It is within a mile and a half of the little railroad station of Blackfoot, 9 miles from Browning. Blackfoot has a population varying from 35 to 50 people. I was unable to learn why the hospital had been located in such an out-of-the-way, unattractive place, except that the location was made to suit the whim of the superintendent of the reservation several years ago. For some reason the hospital is not popular with the Blackfoot Indians.

So far as I could see it was of the standard type of the Indian Service sanatoria and seemed to be fairly clean. Since my return to Washington I find there has been a complete change in the staff,

and this may overcome the prejudice of the Indians.

INDIANS BELITTLE IRRIGATION.

Less than 2,000 of the 28,000 acres of irrigated land now within service of ditches are cultivated by the Blackfeet Indians, and most of this acreage is made up of little patches along the rivers and creeks. It is doubtful if the area of irrigated land which has been seeded and cultivated would aggregate more than one-half of the acreage reported. If the irrigation system had but recently been placed in operation there would be no particular significance in the paltry showing made by the Indians, but this area has been ready for the plow for a number of years, and the fact that but a mere handful of Blackfeet are attempting to utilize the water is an indication of the almost utter indifference of the Indians as a whole toward farming their watered allotments.

Over a million dollars has been spent by the Reclamation Service on the several Blackfeet irrigation projects, and the service engineers estimate that \$2,800,000 additional will be required before all of the

irrigable land has been brought under ditch.

A large part of the land subject to irrigation lies in the Ten Mile Strip, which, in all probability, will be opened for settlement within a few years. The allotments in the area now under ditch are in 40-acre tracts. If the strip is opened, white settlers probably will first take up the unallotted irrigable lands. This will raise the question of leasing or selling, for the benefit of the Indians, the 40-acre allotments. Whatever may have been the original purpose in the plans underlying the several irrigation projects on the Blackfoot Reservation, it is evident the purpose, so far as making irrigation farmers out of the Indians is concerned, has gone astray.

Respectfully submitted.

MALCOLM McDowell

Hon. George VAUX, Jr., Chairman.

APPENDIX G.

REPORT ON THE BOCKY BOY'S BAND, MONTANA, BY MALCOLM McDOWELL.

Washington, D. C., February 2, 1918.

Sir: On my way from the Blackfoot Indian Reservation, in north-western Montana, to the Crow Indian Reservation, in southern Montana, I made a slight detour to visit Rocky Boy's Band of Indians, who recently have been placed on a reservation which occupies three townships of the abandoned Assinniboine Military Reservation, in Hill County, Mont. Rocky Boy's Band, so called because Rocky Boy, a Chippewa Indian, who died last year, was the chief, is a group of nomads who, for many years, wandered about the State of Montana.

About 50 years ago some Chippewas from Wisconsin came into Montana to hunt buffalo and remained there. Members of their tribe were allotted lands in Wisconsin, but, as they had expatriated themselves and refused to return to their home reservation, the buffalo hunters were not allotted and became nonreservation, landless Indians. Indians of other tribes attached themselves to this group, and some Cree and Assinniboine Indians from Canada, who got into trouble with the Dominion authorities on several occasions, were driven across the border and attached themselves to the band. One time the soldiers from Fort Assinniboine rounded them all up and took them to the Canadian border, but when the soldiers returned to their post they found the Indians ahead of them.

For many years these Indians were tramps, vagrants, objects of charity, panhandlers, and casual laborers around Great Falls, Havre, Big Sandy, Box Elder, and other Montana towns. Some of them settled on the Blackfeet Reservation and, to all intents and purposes, became members of that tribe. The white people of Montana looked upon Rocky Boy's people with contempt and called them scavengers and alley cats, because many of them gleaned their food from garbage

Commissioner Sells secured an act from Congress setting aside about three townships in the southern part of the old military reservation, and, rounding up about 450 of the band, induced them to settle on the new reservation. A number of log huts were built, farming implements, horses, wagons, and seed were distributed, a farmer was placed in charge under the superintendent of Fort Belknap, and the Rocky Boy Band began living as reservation Indians.

An accurate census could not be made, but a tentative roll contains about 450 names. Rocky Boy died soon after his people moved on to the reservation and shortly before his death he wrote me a letter begging me to visit his people. I replied I would do so at the first opportunity.

ROCKY BOY'S COUNTRY.

Arriving at Box Elder, on the Havre-Butte branch of the Great Northern Railroad, on the morning of September 21 last, I took an 82607°—INT 1918—vol. 2——24

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automobile for the 14-mile ride to the main camp of the Rocky Boy Band. The land selected for these Indians is hilly, with many valleys and coulees, some of them quite deep. It is watered by a number of streams and the soil is "spotted"—that is, there are occasional areas of good soil, which can be cultivated as dry farms. But the whole country is well covered with buffalo grass which, it seemed to me, was much better than that on the Blackfeet Reservation.

I reached the main camp about 9 o'clock and found but few men at home. Mr. G. E. Parker, the newly appointed superintendent, had left the previous day for Fort Belknap on business connected with the Indians, but Roger St. Pierre, a full-blood Chippewa, who until Mr. Parker was made superintendent was the farmer in charge, an exceedingly intelligent man, took me in hand. Peter Kenawais, a full-blood Chippewa, was the principal Indian in camp at the time. Rocky Boy, Little Bear, and he formed the administrative and executive council of the tribe, and since Rocky Boy's death he has shared that responsibility with Little Bear, who happened to

be at Great Falls the day I was there.

A pleasant surprise met me for, instead of a lot of ragamuffins living in dirty huts and bearing all the marks of tramps and hobos, I found a number of bright, animated, clean Indians. Many of them wore the brilliant sashes of the Canadian Indians; in fact, there seemed to be a strain of French-Indian blood in these people. The men were better clothed than most of the full-blood Blackfeet and many of them were fine looking and of very good physique. The women were not badly dressed and many of the younger women were quite prepossessing in their appearance. The children were not bashful but were playful and seemed to be cheerful. All of the log houses had windows and were cleaner than most Indian houses. Of course, they were less than two years old, but I have seen many Indian homes, newly built, which were so dirty that it required some will power for me to enter them.

Much, if not most, of the clothes worn by these Indians came from the charitably disposed people of Great Falls, Havre, Big Sandy, and other towns in western and central Montana. The good people of Great Falls not only provided clothing but also food and medical attention. This activity will cease now that these Indians have been

taken over by the Government.

WANTED A SCHOOL-TEACHER.

Asking Peter Kenawais where the men were, he told me they were all out working. He pointed out to me a thrashing outfit about a mile away where a number of Indians were thrashing oats. Much as I disliked calling men in from work, it had to be done, for my time was limited. So runners were sent to the fields and neighboring camps and within a couple of hours about 50 men had gathered in the schoolhouse. They seem to be much pleased that a man from Washington had come to see them. Although most of them could talk and understand English, I was forced to use the office of the interpreter, for they insisted upon holding the meeting as a general

council, and this, of course, required they should deliver their

speeches in the Chippewa tongue.

When I asked them what they wanted more than anything else, they said they wanted a teacher for their children. The council was held in the schoolhouse built by them without any expense to the Government for labor. The logs were cut down on the mountains and hauled to the camp and all the men of the tribe had something to do with building the structure. It was quite a large house with a shingle roof and attractive lines, well built, with plenty of windows and a level floor. They told me there were some 40 or 50 children in camp and said they wanted them to go to school, but had no teacher.

(Nore.—In connection with this I called on Mr. Meritt, Assistant Commissioner of Indian Affairs, immediately on my return to Washington some two weeks later and told him of the request of the Rocky Boy Band for a school-teacher. He at once directed that a day-school

teacher be sent there.)

After the council meeting they took me around the camp and brought out their Indian ponies, which they said were altogether too light for farm purposes. The soil in that locality is heavy and they want larger animals, particularly for breaking the sod and plowing. The Indian Office has two Percheron stallions on the reservation to breed to Indian ponies, but it will be several years before the colts sired by these stallions are old enough to work. They also urged me to have a portable sawmill sent there, because lumber is expensive and, as there is plenty of pine on the hills, the portable sawmill would be a good investment.

NO RAIN MADE CROPS FAILURE.

These Indians have cultivated over a hundred acres of land, and although last summer was exceptionally dry, so dry in fact that a number of white homesteaders told me they were going to leave the country, the Rocky Boy Indians intend to break more sod next year. Considering the fact that the wheat crop of 1917 in that locality averaged less than 3 bushels an acre on land which the year before yielded as high as 50 bushels per acre, this determination of the Indians to increase their wheat acreage is a good sign and they should be encouraged. Some of the new farmers did not get a bushel of grain from their seeded fields.

In addition to the 70 acres of wheat, which yielded 358½ bushels (a higher average yield per acre than in the neighboring white farms), and 35 acres of oats, which yielded 135½ bushels, a considerable quantity of potatoes, onions, and cabbage was raised. The oats and wheat were raised on dry farms, and, as a matter of record, I am inserting here the names of the Indian farmers who had thrashed their oats and wheat when I was there, together with the acreage and

yield.

First crop report of Rocky Boy's Band, showing acreage and yield, 1917.

Farmers.	Oats.		Wheat.	
	Acres.	Bushels.	Acres.	Bushels.
Ho-hoo	6	8	61	384
Leon Gardiper	Š	14	10}	4
Chief Stick	ž	1 6	-24	13
Young Boy Shorty.	I I	10	ŝ	20
James Courchane	81	l ñ	94	20
Dan Belcourt	9		27	7
Charlie Turner	31	32	74	ة ا
	3	30		
John Courchane	3	ŏ		261
Jose Little Dog.			44	81
Mrs. Rocky Boy	8	0	8	
Will Young Man	2	0	10	l 11.
Bow	2	0	7	12}
John Oats	13	0	13	1 1
Andrew Alex	15	0	10	.0
Dan Sutherland	2	15	84	214
John Gapler	3	0	2	8
Thomas Dunn			3	0
David Swaine			81	5}
John Parker	2	0	3	l 8 [*]
John Bucket	14	Ŏ		l
Arthur Rock	21	Ŏ		
Albert Larance	73	~ 12		
Baptist 8matt Billy	ī	1 70	9	16
France Monroe	2	Ň	1 1	آ أ
Joe Big Sky	44	ň	121	L 28
	2	32	3.	1 16
Ed. Medicine		0	4	1 6
Esare Lafambois	31		31	١
Frank Billy	21	0	39	, ,
High Hill	5	0		
John White	8	0	12	53
Joe Small	3	ļ	5	4
Spear	44	O		
Peter Kanawais	6	0		
Frank Sangory	6	0	84	11
Eagle Man	3₺	0		
James Smith	l	l 	94	1 7
Left Hand Boy		63		23
		· ·	1	1

CATTLE AND HAY COUNTRY.

Roger St. Pierre told me that a number of thrashing and haying crews could be developed among the Indians and that the white farmers in that community could use all the Indians for harvesting.

But, like the Blackfeet and Crow Reservations, this is a grazing country and the Indians should be encouraged to raise wild hay. This will call for an issue of mowing machines and hayrakes and I would suggest that the proper authorities give this matter prompt attention so that the hay-making implements may be provided for next year. At some future time the Rocky Boy Indians may develop into cattle raisers, but that time is remote; it might, however, be well to start them with a small herd. The Commissioner of Indian Affairs approved a lease with a white stockman for 1,600 cattle for \$5.25 a head per year, which is said to be the highest price ever paid for grazing land in that country. This gives an annual revenue of over \$8,000 to the Indians, which is being used for their benefit.

A matter which should receive attention concerns the health of these Indians. Dr. J. B. Mackenzie, of Box Elder, had an informal arrangement, made through the Fort Belknap Agency, to attend the Rocky Boy Indians. He has no authority to treat emergency cases, but only such as come to him with orders signed by Supt. Parker. As a matter of fact he has responded to a number of emergency cases from the reservation, always at his own expense.

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He says the Rocky Boy Indians are badly infected with tuberculosis and venereal diseases; that they have a predisposition toward scrofula and are undernour shed; they have no stamina; are anemic and easily contract bronchial and pulmonary complaints; they have no idea of ventilation or hygiene and are hard to deal with. He added there is not much trachoma among them. I inquired about Dr. Mackenzie and find he is a leading physician in that country and has a reputation of being a skillful surgeon. I should think that a definite contract could be made with him by the Indian Office which will give him authority to move, at Government expense, emergency cases to the hospital at Great Falls or Havre.

For a year or so more I think it will be necessary to issue rations to these Indians during the winter. Heretofore they have been a liability on the community, but now there is every prospect that they can be made a valuable asset. The life they have been living has sharpened their wits and curious as it may seem, has given them a self-reliance which is entirely absent in so many of our Indians. If they are encouraged now and helped a little bit, the assistance not to go to the extent of pauperizing them, I believe the Rocky Boy Band will develop into a useful group of Indian farmers and stock

raisers.

It was interesting to note, however, that they are already acquiring some of the habits of reservation Indians. They are rapidly learning how to protest and demand and, I suppose, before many years they will be sending committees to Washington, but I desire to point to one significant fact: They said they wanted a school-teacher so their children might be taught in the schoolhouse which had been built for them by their fathers and brothers, and that was the first thing they told me they wanted.

The Commissioner of Indian Affairs has made his plans for the advancement of the Rocky Boy Indians in considerable detail, and the dominant feature of them lies in the purpose to teach the Indians agriculture and stock raising and encourage them to use the land. For that reason I have no recommendations to make other than to suggest that it would be well to make definite arrangements for

adequate medical and surgical attention.

Respectfully submitted.

MALCOLM McDowell

Hon. GEORGE VAUX, Jr., Chairman.

APPENDIX H.

REPORT ON THE SEMINOLE INDIANS, OKLAHOMA, BY WILLIAM H. KETCHAM.

WASHINGTON, D. C., January 28, 1918.

SIR: Sometime in October or September last there was held a mass meeting of Seminole Indians in Seminole County, Okla. As a result of this mass meeting, a letter was addressed, October 4, 1917, to Commissioner Moorehead, calling attention to serious conditions prevailing among the Seminole people and asking information on certain points. The letter, signed by John H. Wise, chairman, and James H. Johnson, clerk, was sent from Lima, Okla. Commissioner Moorehead forwarded it to Hon. Malcolm McDowell, secretary of the board, who, on December 21, transmitted it to me at Oklahoma City, with the request that I should make an investigation of conditions in Seminole County. I at once wrote to Mr. Johnson that I would come to Wewoka on the 20th of January and requested him to meet me there with such members of the Seminole Tribe as he might be able to get together, so that I might have a conference with them on the following day. My purpose was to spend several days among the Seminoles and to make an extended inquiry into their home surroundings and health conditions.

About the 20th of January the weather became extremely cold and train service was badly disarranged. As, under these circumstances, it was impossible for any considerable number of representative Seminoles to meet me at Wewoka, Mr. Johnson wired that he and certain others would call on me in Oklahoma City. Accordingly, on January 19, four Seminole Indians—John H. Wise, James H. Johnson, Isaac Jones, and Kaney—called on me. Mr. Johnson acted as interpreter. The delegation was made up of intelligent, fine-looking Seminole Indians who made a very good impression upon me. Their main object seemed to be to obtain reliable information concerning certain matters about which they were in doubt. The following are some of the questions they propounded:

1. Has the field clerk the right to withhold payments of personal

funds?

2. Is the land of a restricted Indian taxable?

3. Are inherited lands taxable?

4. Is an inherited homestead taxable?

5. Can children of full Indian blood but whose parents are of different tribes be classed as mixed bloods so far as the question of restrictions on land are concerned?

For example: Can a child of pure Indian blood whose father is a Seminole and whose mother is a Creek be held unrestricted as regards his surplus land in the same manner as would be the case of a child half white and half Indian?

6. What has become of the efforts inaugurated by Mr. Gresham for the recovery of lands out of which Indians of the Seminole Tribe

have been swindled?

7. Can the natural guardian of a child be appointed legal guardian?

The following complaints were made:

1. In paying the Seminoles by checks, sent through the mails, the checks sometimes are sent to the wrong parties, in cases, for example, of close similarity of names, and in some instances are never received by the parties for whom they are intended. The Indians said that if the roll number were attached to the check mistakes like this might be avoided. I asked for a specific case and the name of a woman was given who had failed to receive three checks. Moreover, the name of the woman was given who had received the checks and kept them. My informant stated that the matter had been taken up with the field clerk but had never been adjusted. I called this case to the at-

tention of Supt. Parker, who assured me that he would make an investigation at once. Investigation has proved this complaint to be well founded. The mistake has already been corrected. The woman who failed to receive her payments was Misselda, wife of Johny H. Wise. The party who actually received the checks was a certain woman by the name of Mesali.

2. The Seminoles are told there are no school funds for the education of their children and that the property of the children is being sold so that the property of the children is being sold so that their

education may be provided for.

On consulting with Supt. Parker, I find that he has no knowledge of any such procedure, neither does he know of any justification for it.

3. Some lawyers contend that when a Seminole dies his homestead

becomes taxable and the restrictions are automatically removed.

4. One of the Indians present (Mr. Kaney) stated that one day a letter, said to be from the Secretary of the Interior, was left at his house which, he was told, removed his restrictions; that sometime after a man came to him with an interpreter and bargained with him for leasing a portion of his land. He signed what he supposed to be a lease but which he afterwards found out was a deed. The Indian wanted to know if there is any way by which this land can be recovered. He said that he had made some effort in this direction and that in a short time he would send me all the papers he has in his possession relating to the transaction. Up to the present time these papers have not arrived.

The Indians stated that there is a great deal of tracoma among the Seminoles and they requested that a physician be sent to them to op-

erate upon the eyes of those afflicted with disease.

I requested Mr. Parker to send them such a physician. He explained the difficulty of securing one at this time but said that he would keep the matter in mind and have one sent there as soon as possible.

Not only from the Indians but from others I learned that probate matters in Seminole County are in a deplorable condition, and certain attorneys in Oklahoma City informed me that the graft perpetrated around Wewoka has made that particular section of the country notorious above all the notorious graft centers of the Indian

portions of Oklahoma.

Believing that the Seminole situation is so bad that it could scarcely be worse and that immediate and radical measures must be taken at once if anything at all in the way of relief is to be accomplished, I told the Indians that I would ask the honorable Secretary of the Interior to send at his earliest convenience a personal representative to them to make full inquiry into their complaints and the injuries they have sustained.

I suggest that because of the magnitude of the task the Seminole conditions present, the Board of Indian Commissioners request the Secretary of the Interior to take immediate steps for relief. I suggest further that, when an opportunity offers, one or two members of the Board of Indian Commissioners devote some time to inquire into the health conditions of the Seminoles and into their

home surroundings. The board can be of help to the Interior Department in inquiring into conditions and in offering suggestions. Respectfully submitted.

WILLIAM H. KETCHAM.

Hon. George VAUX, Jr., Chairman.

APPENDIX I.

REPORT ON THE KIOWA AGENCY, OKLA., BY WILLIAM H. KETCHAM.

OKLAHOMA CITY, OKLA., January 21, 1918.

Sir: I spent January 17 and 18 at Anadarko and Fort Sill, Okla., inquiring into conditions, particularly health conditions, among the tribes of the Kiowa Superintendency. Under this superintendency are the Kiowas, Comanches, Wichitas, Caddos, and more than 200 Apaches. Mr. Jules Schevitz, the secretary of the Oklahoma Association for the Prevention of Tuberculosis, accompanied me.

With Supt. C. V. Stinchecum and Dr. Claude S. Chambers, the Government physician, we visited the schools at Anadarko and Riverside, and I addressed a representative gathering of Indians of several tribes, assembled in the superintendent's office, on the subject

of tuberculosis.

Supt. Stinchecum went with us to the school and the sanitarium at Fort Sill.

The management of the three schools visited is worthy of commendation. The Anadarko School impressed us by its cleanliness and the exceptional good health of the pupils; the Riverside School is being brought up to the desired standard by the present superintendent, recently placed in charge; the Fort Sill School appears to be conducted in an efficient manner. I heard the statement made that the Fort Sill School plant is the best of the reservation school plants.

The Fort Sill Sanitarium is decidedly a success and the management very creditable. The Indians have learned to appreciate it

and it would not be possible to overestimate its value to them.

Among the tribes of the Kiowa Superintendency there is much trachoma. Dr. Chambers states that he has performed something like 3,200 operations for trachoma and that about 30 per cent of the Indians are afflicted with the disease.

While tuberculosis is not so prevalent among these Indians as among certain other tribes of Oklahoma, it demands serious consideration. The superintendent is of the opinion that it can be completely eradicated if the proper steps are taken at once. He plans to form a tent colony for tubercular patients on the ample grounds of the sanitarium. Already a few tents have been put up. The physician in charge of the sanitarium can very easily supervise the tent colony. It will not be an impossible undertaking to assemble all tubercular sufferers into this colony, but, to accomplish it, there are two requisites—adequate funds and enforced segregation. It is believed that if segregation be enforced in one or two cases there

will be no difficulty in inducing all who have tuberculosis to come into the colony without any form of coercion whatever. Dr. John W. Duke, health commissioner for Oklahoma, has promised to enforce segregation whenever he is requested to do so by the Indian Office. As the local superintendent is in favor of enforced segregation the matter rests entirely with the honorable Commissioner of Indian Affairs.

The tribes of the Kiowa Superintendency have been accustomed to firm discipline and it is thought good policy to begin with them in the enforcing of segregation. If segregation can be carried out successfully here, the way will be paved to carry it out in other portions

of Oklahoma which are vitally in need of it.

The Oklahoma Association for the Prevention of Tuberculosis volunteers to aid the Indian Office by conducting an active campaign of education on the subject of tuberculosis for the benefit of the tribes of the Kiowa Superintendency and, in fact, of all the tribes of the State of Oklahoma.

I recommend that the Board of Indian Commissioners urge an ample appropriation or at least an adequate allotment of funds to make the tubercular colony feasible and that it suggest to the honorable Commissioner of Indian Affairs the desirability of sustaining Superintendent Stinchecum in an effort to enforce segregation.

Respectfully submitted.

WILLIAM H. KETCHAM.

Hon. GEORGE VAUX, Jr., Chairman.

APPENDIX J.

REPORT ON THE CROW INDIANS, MONTANA, BY MALCOLM McDOWELL.

Washington, D. C., December 15, 1917.

Sir: I made a survey of the conditions of the Crow Reservation, in Montana, September 23 to October 3, 1917, inclusive, and offer the

following as my report:

There is no disputing the facts that the Crow Indians have suffered much and, for many years, have been in a bad way; that in some cases they have not been given what they say was a square deal; that there has been much friction between many members of the tribe and several superintendents; that influential groups of white men in Billings, Hardin, Sheridan, and other neighboring cities are coveting their choice grazing and farming lands; that some of the lessees of grazing land used certain Indians to foment strife and breed disorder to force certain other lessees off the reservation; that an important part of the white population of Montana is in favor of homesteading the surplus lands in the reservation so as to increase the white population and quicken the economic development of the State and that they are willing to accomplish their ends without any regard to the wishes to the Crow Indians.

It seemed to me the Crow Indians, as a whole, are not so ambitious, so progressive, as many other tribes. There are a number of bright,

capable, energetic Indians on the reservation, but most of such are mixed breeds. But, taking the tribe as a whole, the impression one gets is that these Indians are ultraconservative and are just be-

gianing to progress toward civilization.

This impression is deepened when one views the thousands of acres of fine, irrigated land which lie idle. The Crows seem to be more content with receiving a small sum an acre out of leasing to white farmers than to work their land and become self-supporting people. Every square foot of grazing land is in use for all the land called grazing (some of it might better be classed agricultural) is under lease or is grazed by the tribal herd. Some of the richest agricultural land in Montana lies between the Big Horn and Little Big Horn Rivers. Thousands of acres are under ditch; there is a growing market for all the hay, alfalfa, grain, and vegetables which the whole irrigated area can produce; there is unlimited water for irrigating purposes; the Indians have been urged for years to farm their irrigated allotments and yet only 287 Indians out of the total population of 1, 710, last year farmed 18,775 acres themselves out of 71,640 acres under ditch and 2,015 acres out of 7,304 acres of upland. According to the records in the office of the superintendent there are only 18 Indians engaged in the live-stock industry as a means of support and it is estimated that 200 Indians own some stock and the total number of cattle owned by all Indians is given as 4,227.

SOME HOPEFUL SIGNS.

These figures, considering the number of years during which the Indians have had allotments under irrigation, are not very encouraging, and yet there are evidences of progress. For instance, Ella K. Cashen, a half-breed, 40 years of age, got \$3,525 from hay cut on 300 acres last year; James Carpenter, a full blood, 36 years old, from 250 acres of wheat, hay, and oats received \$2,035; James Blane, a full blood, 41 years old, from 105 acres of wheat, hay, and oats, got \$1,583; Frank Shane, a half-breed, 46 years old, got from 135 acres of wheat, hay, and oats, \$1,800; and Crooked Arm, a full blood, 67 years old, got \$1,244 from 94 acres of the same crops.

It is interesting to note that the live stock owned by individual Indians last year included 9 boars, 27 bulls, 2,800 cows and heifers, 114 hogs and pigs, 3,302 horses, 1,781 mares, 2 mules, 62 pony stallions, 23 large stallions, 1,400 steers, and 1,863 chickens, having a total value of \$511,000, and only 27 families owned and used milch

cows.

Last year the Indians raised the following crops:

Oats: 26,343 bushels, value \$13,164, on 2,969 acres; average yield, 8.87 bushels per acre, or \$4.43 per acre.

Wheat: 31,152 bushels, value \$43,239, on 4,153 acres; average yield,

7.50 bushels per acre, or \$10.41 per acre.

Hay: 8,210 tons, value \$51,513, on 6,729 acres; average yield, 1.22 tons per acre, or \$7.65 per acre.

Miscellaneous vegetables and fruits: 280 acres, value \$5,653, or

\$20.19 an acre.

There was a marked increase in the number of home gardens cultivated by the women and children this year over previous years

and more acres were planted to potatoes than ever before. Much difficulty has been experienced in inducing the Indians to save their seed. A few placed seed in the warehouses, but when they got hard up in winter they took the wheat, corn, and oats out, a sack at a time,

and sold it.

The "home canning" displays, made by the Crow women at the Crow Fair, were particularly significant, because most of them were labeled "first attempt." I talked with a number of the exhibitors and found them quite enthusiastic over canning and preserving vegetables and fruits. They told me they would "put up" more sweet corn, tomatoes, pickles, dried squash and pumpkins, and jams

and jellies next year.

The number of self-supporting Indians, as given in the superintendent's report, is 400, and 90 more are making efforts to support themselves with varying degrees of success. The total number of allotments, 2,367, aggregate 470,536 acres, of which 92,206 acres are used as home lots, gardens, and cattle-grazing land by the Indians, leaving 378,330 acres unused. From farming and grazing leases the Indians received during the fiscal year ending June 30, 1917, \$244,753.

LAND SHOULD BE USED.

It is believed there is oil in some sections of the reservation and the mountains carry coal and other minerals, and there is a possibility that oil may be found in sufficient quantities to give the tribe a revenue. But the present and future industry of the Crow Indians is confined to farming and stock raising and the Crows are not natural farmers. It is questionable if the Crows now living have the capacity to farm even a substantial percentage of their irrigable

or dry-farming lands.

This is not altogether a matter of opinion. The history of the tribe and the unwillingness of the Indians to-day even to attempt to cultivate their irrigated lands warrant the statement that if the farming land of the Crow Reservation is to be made useful it will have to be leased to white farmers until such time as the Indians can be educated up to the point where they will become self-supporting farmers. Personally, I do not think it is possible for the Indians of to-day to cultivate a large portion of their land, and I am rather inclined to favor not only a liberal leasing policy but also a rather liberal selling policy touching surplus land.

I believe that legislation and administration can be combined to prevent the farming lands of the Indians from passing into the hands of white men. I believe that a policy could be established which would result in using lessees to bring irrigated allotments to a high state of cultivation, returning them to the allottees when they, the allottees, have arrived at the stage of progress where they will want to go on their irrigated allotments and farm them. The introduction of white owners and white lessees certainly would tend to improve the roads, scatter day schools over the reservation, and improve

the industrial condition of the country.

Agricultural experts are of the opinion that tens of thousands of acres of the grazing land is first-class dry-farming land, and there is much sense in the view that such Indian lands should not be per-

mitted to lie idle and unfenced simply to give an Indian 10 to 20 cents an acre, which does not provide enough money to support him

but which does give him enough money to breed idleness.

The last census gives 856 males and 854 females in the tribe, grouped in 465 families. Last year there were but 58 births reported on the reservation and 55 deaths. Of the 1,060 Indians examined by the agency physician 135 had tuberculosis and 130 had trachoma. With one exception, all families live in permanent homes, and the one exception is a patent-in-fee Indian, who lives in a tepee the year round. There are 1,246 full bloods and 259 of half or more Indian blood, and only 200 who are less than half Indian blood. will be seen from the above figures that the Crows are not a prolific race and that the bulk of the tribe is full blood or nearly so. I had little difficulty in making myself understood with most of the Indians to whom I talked, and I find from the figures that 875 of the 1,710 Indians speak English and 700 read and write English. All but about 700 of the Crows wear the white man's clothing, and the physician classed as mentally and physically sound 1,513 members of the tribe.

It is well to keep these statistics in mind when considering the question, which is now up in Congress, of opening the reservation by offering the surplus lands to homesteaders. The Crow Reservation is divided roughly into three parts by the Big Horn River and the Little Big Horn River, both of which come into the reservation from the south and join at the northern boundary. The triangular tract of land between the rivers, which contains about 750,000 acres, is rich farming land. Much of it is under ditch and, with the exception of the north end, is well watered. The range for the tribal herd is in this triangle, and a large part of the area of the southwest corner of the triangle is mountainous and unsurveyed. The country east of the Little Big Horn and west of the Big Horn River and the three tiers of townships in the southern part of the triangle are leased for grazing. With the exception of the north side of the west side and the north end of the tribal herd range the reservation is well watered. In the west is Pryor Creek and its tributaries running through a narrow but fertile valley, and the tributaries of the Big Horn and Little Big Horn and the creeks and streams that flow out of the eastern part of the reservation into the adjoining Tongue River Reservation, together with numerous springs in the mountains and hilly part of the reservation, give the reservation the water which makes for good grazing and irrigation.

LAND AND CATTLE.

The Indian allotments are along the rivers and streams. Something over 48,000 acres have been allotted to 2,452 Indians, and there are 1,832,269 acres unallotted, most of which is grazing land. The areas susceptible of irrigation aggregate 153,750 acres, all of which is allotted. The area now under projects amounts to 74,020 acres. The several irrigation systems that are on the reservation have cost over a million and a half dollars to date.

The reservation is divided into five districts for grazing leases. District No. 1 includes two-thirds of the eastern part of the reserva-

tion and contains 402,682 acres; district No. 2 occupies 242,218 acres in the northwestern part of the reservation; district No. 3 takes in 356,262 acres just west of the Big Horn River and is leased for sheep grazing; district No. 4, also used for sheep, lies west of district No. 3 and extends to the west line of the reservation, having 483,928 acres; and district No. 5, which occupies the south end of the big triangular tract between the Big Horn and the Little Big Horn Rivers, contains 480,661 acres. The tribal herd uses the land between the two rivers north of district No. 5. Districts No. 1 and No. 2 are leased in one tract for an annual rental of \$62,700, district No. 3 for \$71,100, district No. 4 for \$79,000, and district No. 5 for \$31,950. This revenue, aggregating \$244,750, goes into the tribal funds and is distributed pro rata, and Indians who have allotments within leased grazing areas are paid from 10 to 20 cents an acre for the use of their lands. The superintendent reported 48,200 cattle and 118,500 sheep as the number on leased unallotted land June 30, 1917.

The tribal herd is valued at \$837,300 and consists of 291 bulls, 10,314 cows and heifers, and 5,782 steers, a total of 16,387 cattle. This herd was in good condition; the animals were fat and to all

appearances are well cared for.

So far as the tribal herd is concerned, the Indians seem to have only an impersonal interest in it. I have referred to the fact that a number of individually owned cattle run with the tribal herd, the owners apparently taking small interest in their stock, leaving its care to the employees of the agency. I asked a number of full-blood Indians why they did not raise cattle and almost invariably they said they would when the tribal herd was distributed among the members of the tribe. Some of the mixed breeds have shown considerable enterprise in raising cattle, and the highest price secured for a steer in that part of Montana was for an animal raised by Robert Yellowtail, one of the educated Crows. I am satisfied that the full-blood Crows are not agriculturists and probably never will be. They are at home in the saddle; they are born horsemen, but as long as the cattle range on the reservation is leased to white men the only chance I can see for the Crow Indians to become cattle raisers will come from their working for the white lessees and thus not only learn how to manage a live-stock business but realize its money-making capabilities.

WHITES MAY GET LAND.

The general feeling in southern Montana is that in one way or another the great grazing, unallotted lands of the Indians east of the Little Big Horn and west of the Big Horn Rivers ultimately will be owned by white men. Every foot of it is now in use, because it is all leased to cattle and sheep men and is carrying all that the grass will permit. There are hundreds of thousands of acres remote from water, too high for irrigation, and valuable only for grazing. The opinion of men, interested and disinterested, who have knowledge of the soil and climate conditions is that this land will have to be used in large units. I have referred to the opinions of skilled agriculturists that the upland near rivers is good dry-farm land, although it is now classed as "grazing land."

The income from grazing lands does not give the individual Indian sufficient to support him. It would require an enormous amount of money to carry out the proposed plan, which contemplates the discontinuance of leasing to white men and stocking the ranges for Indians, with the idea that they will become cattle raisers on their own lands. I may be wrong, but the only hope I can see for the Crow Indians is to induce or educate them to go upon their irrigated allotments and become farmers, selling the surplus unallotted lands to provide money to properly equip them with homes and implements.

There is a bill pending in Congress which provides that the unallotted children shall be allotted; that all the remaining unallotted lands shall be divided pro rata, and that the Indians, under suitable regulations, shall be permitted to sell their surplus lands, their home-

steads and irrigated lands to be held under restrictions.

I found that this measure was approved by the Crow Indians with whom I talked. As it would give the Indians the choice of selling their surplus lands or holding them as they saw fit, this would overcome the objection to a former bill which was designed to open the surplus lands to settlement without giving the Indians any voice in the matter.

SCHOOLS ON THE RESERVE.

There seem to be school facilities for all Indian children on the reservation, for there are three boarding schools—two Government and one Catholic—several public day schools which Indian children attend, and there were five day schools, conducted by Baptist and Congregationalist missionaries, but the Congregational school at Crow Agency was closed because of the death of the missionary in charge. The last school census shows 243 boys and 223 girls, a total of 466, on the reservation. Of this number 50, for one reason or another, were ineligible, leaving 416 eligible children of school age. On almost every reservation I have visited I noticed more or less

On almost every reservation I have visited I noticed more or less truancy. As it is well known, Indian parents do not like to discipline their children, and if the child does not want to go to school the parents generally find some means to help him evade his school duties. In this connection I wish to offer this suggestion: If parents of white children are compelled under compulsory school laws to send their children to school a certain number of days a year, why should not the parents of Indian children likewise be compelled to do so. I further suggest that Congress be given an opportunity to pass a compulsory school law, to be effective on Indian reservations.

In studying the records of arrests on the Crow Reservation I was much pleased to note that of the 15 arrests for drunkenness during 1916 and 1917 only 6 could be charged to the Crow Indians, and that of the 59 men arrested charged with misdemeanors only 15

were Crows.

HEALTH AND SOCIAL SERVICE.

The health conditions on the reservation were not so bad as had been reported to me, although over 8 per cent of the Indians have tuberculosis and about the same per cent are afflicted with trachoma. The frame hospital at Crow Agency has a normal capacity of 16,

but can be crowded to care for 24 patients. This is under the supervision of Dr. Townsend, the agency physician, who struck me as being a very energetic and capable man, much interested in the Indians and popular with them. The health of the Pryor Creek Crows is under the charge of Dr. H. L. Oberlander, who is subagent and physician. He is one of the most efficient men I have met in the Indian Service, for in addition to his manifold duties as subagent, physician, farmer, and general factotum, he is a power for good along social-service lines. Pryor Creek Indians, almost all of them full bloods, seemed to me to be the most progressive on the reservation, and this is largely due, I am sure, to the indefatigable labors and kindly tact of Dr. Oberlander.

As on all other reservations, the three field matrons are seriously handicapped in their work because they are not properly equipped to do it. The Crows live along the creeks and rivers, many of them remote from the community centers where the field matrons have their headquarters. It is simply a physical impossibility to reach even a small portion of the families without an automobile. Crow women need help from the field matrons, and, what is more to the point, they want and ask for it. Field matrons without adequate facilities in the way of transportation can not carry out social-

service activities effectively.

The Crow women are in a receptive mood now, and the time is ripe for field-matron service on that reservation. During the annual Crow Fair at Crow Agency I talked with a number of women, and from what I learned I feel certain that if the field matrons receive official encouragement in a practical form they will accomplish much

good with almost immediate results.

Better roads are a prime necessity on the Crow Reservation. This is apparent to anyone who travels through that wide expanse of territory in an automobile or wagon. The abandoned right of way of the Chicago, Burlington & Quincy Railroad, which closely parallels Pryor Creek and goes through Pryor Gap between the Pryor Mountains, offers unique opportunity to secure a good level road with bridges, trestle, and culverts all in from Pryor to the northwestern section of the reservation, where it would join the road from

Hardin and Billings.

The county in which the Crow Reservation is located owns a heavy road grader, and there is a large steam tractor on the reservation. With these two machines and some Indian labor a fine road could be made at a comparatively small expense. I was told that the county officials would heartily cooperate with the Indian Service in transforming this abandoned right of way into a first-class road. Not only would such a highway be of almost inestimable value to the Indians but it would serve as a short cut for automobile travel to the Yellowstone Park from points north and east of the reservation.

With Supt. Calvin H. Asbury I went to several parts of the reservation and was much pleased with the way he took hold of matters in his new field of operation and with the tact and good judgment he displayed. He outlined his plans to me, and most of them are in line with recommendations I would make had he not just taken hold of the management of affairs. He is much interested, and has been for many years, in those social-service activities which the board

long has regarded as of prime importance, and the human equation

looms large in the Crow problem.

More than all else the full-blood Crow Indians need education and encouragement—the kind of education and encouragement which will arouse ambition, breed initiative, and create the desire to perform gainful work. Even granting that they have little of what might be called the agricultural instinct, I can find no sound reason why they might not be led to farm their agricultural allotments. Once they realize the satisfaction which goes with a steady income from their irrigated lands, which they could use as they desire without governmental supervision, I believe they will advance rapidly on the road to progress.

Respectfully submitted.

MALCOLM McDowell.

Hon. George VAUX, Jr., Chairman.

APPENDIX K.

REPORT ON THE PAPAGOES, ARIZONA, BY EDWARD E. AYER.

Tucson, Ariz., March 12, 1918.

Sir: I visited the present headquarters of the Papago Reservation at San Xavier yesterday. I am very glad to see that Commissioner Sells is making arrangements to change the headquarters to Oasis, about 70 miles west of the present location. It is only in this way that best results can be obtained by the splendid arrangement made by the commissioner in having increased the Papago Reservation, and the agent should certainly be as near the center of it as practical.

It was reported to me that wells already located at the two or three points on the reservation have given very fine results in furnishing water for the Indians' stock; consequently the Indians' cattle are even for this tremendously dry time in Arizona in much better condition than cattle owned by the white people; in fact, are in good condition. This result being gained so soon shows that the department is on the right track, and is certainly very gratifying. Having medical attendants at the agency will, of course, be a great help and is cer-

tainly as it should be.

I want to especially call attention to the very bad condition of the agent's house at San Xavier. Of course, Agent McCormick and his family will soon be away from there, but some one will have to take his place, and it is ridiculous that intelligent white people should be housed in such a manner as they are at San Xavier. The commissioner thoroughly recognized this condition when he was there and was undoubtedly in favor of making reasonable improvements and repairs that would be satisfactory and that would be proper and which only amounts to a few hundred dollars, say six or eight hundred. The requisition for these improvements was sent in by the agent and turned down. I am almost sure that the commissioner never saw this letter from the agent requesting these improvements and I can not help but urgently suggest that requests for all such

things as this, where the health and reasonable comfort of the agent is at stake, should always be laid on the commissioner's desk before being turned down by anybody. As it exists there to-day, in this hot climate, the agent and his wife and two children occupy one medium large-sized room with no chance for sleeping in the open air, or anything of that sort, and it could all be arranged with a small amount of money.

It seems a cog has slipped somewhere, as the hospital which was ordered at the new headquarters at Oasis has not yet been started. I certainly hope it will be ready by the time the agency is moved. It may be necessary at any moment, and I think without question there should be two or three more wells. These wells should be in the neighborhood of Tapowa and also in the neighborhood of Piscinamo, thereby greatly increasing the water supply for both the cattle and the people on the reservation.

Respectfully submitted.

EDWARD E. AYER.

Hon. GEORGE VAUX, JR., Chairman.

APPENDIX L.

REPORT ON THE PIMA INDIANS, ARIZONA, BY EDWARD E. AYER.

Tucson, Ariz., March 12, 1918.

Sir: I went from Phoenix to Sacaton to look matters over among the Pima Indians. The most important thing to do on this reservation, to my mind, is to put in a lower diversion dam just above the reservation to supply water to the ditch already dug on the north side of the river eight years ago, and furnish much water for the entire reservation. There seems to have been two appropriations already made for this dam—one of \$125,000 and one of \$75,000, the money being in the Treasury. The report is that it is held up on account of the upper dam above Florence not being settled upon, or rather the division of the water, and both are being delayed. The upper one has no influence on the lower one at all. All of the water for the lower one is for the Indians. On account of the river channel widening since this project was started, there is a request for \$75,000 more. which is in a bill for this year. It is very unfortunate that this dam has not been put in before, as the Indians will suffer very materially this year for sufficient water and it is questionable whether they will be able to raise products enough to cover their needs.

I would also urge starting the bridge across the Gila River connecting this reservation at the first possible moment. At the least semblance of high water the two parts of the reservation are divided. I think I shall have a close ally on this subject in Commissioner Sells, as he is well acquainted with this river, and on this trip to Sacaton my car stalled near the south side of the river and before we could get it out the water was within 6 inches of the top of

the box.

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I found the reservation, as far as the agricultural part was concerned, in fine shape. The only change I would make in this part of the reservation would be that I would not allow the Government to put any portion of it in cotton. There are some 24 acres in cotton this year and in my judgment it had better have been wheat.

I found the dormitories of the school about as bad as possible. There is an entire absence of everything outside of the school to entertain the children. The school has no playground that could be called such, no swing or other appliances that are now found in most all well-regulated schools. There are no rest rooms for the girls; the only places they have outside of the sleeping rooms are the grass plots of the school yard. In my judgment, one of two things should be done—either provide new suitable dormitories with up-to-date appliances for recreation for the children outside of school hours, or abandon the school entirely as now constituted and simply have a school there for people immediately around the reservation, and transfer the most advanced scholars to Phoenix.

There is now only one field matron for the 4,500 Pima Indians, who live in an area extending some 40 miles along the Gila River. I understand there are two more matrons to be appointed in the near

future, and it is certainly very necessary.

I would also suggest that at this reservation, and at all the others, the employees have small plats of ground allotted to them—about one-quarter or one-half acre, each with free water, etc. All of the people connected with these reservations are usually, or almost always, earnest, self-denying workers on very small salaries, and if each of the families could have a small plat of ground on which to raise vegetables, etc., it would certainly help them out materially.

There is a large absence here of facilities for teaching the elder boys in woodworking, or anything of that sort. Not only this reservation but others should be supplied with such appliances, in my

judgment.

I was at this reservation as a soldier in 1862. The Pima Indians were at that time, and always have been, a charming people. Their assistance to our Army in coming in was very great and freely given. Since that time in the numerous wars with the Apaches they have always been the white man's friend; and, in fact, they furnished scouts and soldiers to help their Government. I think they have never been accused of killing a white person during their connection with us.

You can imagine the pleasure it gives me to see the interest that Commissioner Sells has taken in these people and their kindred, the Papagoes, who also have always been friendly, or practically so.

Before the settlement of Salt River these Indians had all the water and were a prosperous people. The wells have been practically developed and the water reserved to them by the action of the Government and the assignment of additional land on the north side of the river, under the administration of Commissioner Sells, has been excellent, and I feel that these splendid people—the Pimas, Maricopas, and Papagoes—are coming to their own.

I am very sorry to report in regard to the number of Pima Indians that are in the Army. There are about 4,500 people in this tribe.

They have been fighting Apaches during recent times, more or less, ever since they were a tribe. In all the Apache wars in the last 50 years, they have been the best soldiers and guides that the United States has had. When this war broke out there was a militia in which several of the Indians were members. I am told that when the companies were taken into the national service about 20 to 25 Indians were sworn in with the others. Of course, they are not citizens, and it seems they can not be drafted, being under tribal relations. I tried to find out how many volunteered, and was told of only one in the whole tribe. It seems to me that there must be some influence at work among these Indians that is preventing their enlistment. I would suggest that the department investigate this matter, and find out if there is any religious influence at work or any other cause.

Respectfully submitted.

EDWARD E. AYER.

Hon. GEORGE VAUX, Jr., Chairman.

APPENDIX M.

REPORT ON THE MESCALERO RESERVATION, N. MEX., BY MALCOLM McDOWELL.

Washington, D. C., May 1, 1918.

Sir: Pursuant to request and authorization, I made a survey of the conditions of the Apache Indians on the Mescalero Reservation,

N. Mex., and submit the following as my report:

I was on the reservation seven days, March 18 to March 24, 1918, inclusive, and made several trips over the jurisdiction, held two meetings with the Indians and inquired closely into their affairs and living conditions. Supt. William A. Light furnished me with every facility at his disposal for securing information and in every way gave me his earnest cooperation. I found he was fully alive to all matters affecting the Indians under his charge and was much impressed by his sympathetic attitude toward the Apaches.

In January, 1914, Commissioner Ketcham visited this reservation and made a report with recommendations, the most important of which have been carried out, particularly those for the purchase of cattle and for a hospital. In this report he placed particular emphasis on the necessity of strenuously opposing the movement then on foot to convert the reservation into a national park. The Senate bill designed to effect the conversion of the reservation into a park never was reported out of the committee and there is an impression that the efforts to "open" the reservation have ceased. But I was informed at El Paso, after my visit to Mescalero, that the business men of that city have simply postponed the matter and that it is their intention to reintroduce the bill and make an earnest attempt to have it passed. I am referring to this situation only because it is a situation which, after the war probably, may become serious and not because of any need of immediate attention or consideration.

There are two groups or bands of Apaches on this reservation—the Mescalero, for whose use the original area was set apart by an

Executive order dated May 29, 1873, and a number of Apaches known as "Geronimo's Band," who were removed from Fort Sill, Okla., in 1913, where they had been held as prisoners of war for many years. The latter are called "Fort Sill" Apaches on the reservation

to distinguish them from the Mescaleros.

Soon after arriving at Mescalero I was told by some Indians that a number of the Mescaleros were almost on the verge of starvation. My investigations satisfied me there was some basis for this report, but on calling Supt. Light's attention to it I found he had made preparations to care for all Indians who really needed rations. The Mescaleros in the Elk River Canyon had a crop failure last year caused by excessive drought, while the Fort Sill Apaches in the White Tail Valley had plenty of rain and made good crops. The complaints of poverty and food shortage were confined to the Mescaleros. I found that some of them were without cash and credit. They could not understand why their "grass money," which is the money received from cattle grazing permits, no longer is distributed to them, but instead is used for the tribal herd.

It seems to me there is considerable force in their contention that a part of this grass money should be held to meet condition imposed by crop failures or other causes, the effect of which is to take away from them sorely needed money. Of course, in the long run, they will be the gainers if the tribal herd increases, but if the Indians need cash to buy food for immediate needs and to properly equip them for farming and the money is at hand and can be made available, I am of the opinion that some of the grass money should be distributed among those who actually need it even though some pur-

chases for the tribal herd would have to be postponed.

LAND AND WATER CONDITIONS.

The Mescalero Indian Reservation contains 474,240 acres of land in southern New Mexico. Its greatest length, east and west, is 36 miles, and it is 27 miles north and south. The Sierra Blanca, or White Mountains, extend across the northern end and the Sacramento Mountains lie in the south. The agency headquarters at Mescalero are 18 miles northeast of Tularosa, a town on the El Paso & Southwestern Railroad, just 100 miles north of El Paso, Tex. The entire reservation ranges in altitude from 7,000 to 9,000 feet (excluding the mountain peaks). About 350,000 acres are covered with a fine growth of timber, which is valued at \$3,500,000 (one and a half billion feet). Three hundred and ninety thousand acres are grazing lands, about 9,000 acres are good to fair dry-farming land, and 400 acres are under ditch.

What there is of agricultural land (both dry and irrigable) is of good quality, but it lies in small patches. The growing season is short, for the altitude is high; but the Indians raise wheat, oats, beans, and potatoes as the principal crops. Cabbages and other garden truck are grown and some alfalfa. An effort is to be made to grow barley. But the big, the principal, industry on this reservation is stock raising—cattle, sheep, and Angora goats. It is held that the cattle-grazing lands can not be surpassed in New Mexico. There

is lack of water, but wells can reach water at depths of from 250 to 450 feet, and the water from them is good—not alkali. The principal stream is the Rio Tularosa, which flows through the agency grounds down the valley to Tularosa, where, I was told, is an irrigation district divided among 150 users who bought rights for \$1,000 each.

Of the 400 acres of irrigated land on the reservation 300 are in Tularosa Canyon and 100 at Three Rivers. A title to the water of the Rio Tularosa was fixed in 1908 by a decree of the court, which gives the entire flow to the Indians from 8 a. m. Monday to 5 p. m. Saturday of each alternate week during the irrigation season. The week during which the Indians can not use water is given to the

irrigation district of the city of Tularosa.

Three Rivers Creek flows across the extreme northeast corner of the reservation, but its value to the Indians for irrigation is practically worthless, for, by an agreement made some years ago with the Indian office, the owners of land adjacent to the reservation where the creek leaves the Indian country have the use of the water the greater portion of the time, and some of the water is used by the El Paso & Southwestern Railroad. The Rio Ruidoso flows east out of the White Mountains in the northwest corner of the reservation, and recently a pipe line was laid from Carrizozo to catch this water for the use of the railroad. Elk Creek is a Sacramento Mountain stream, flowing through Elk Creek Canyon, in the southern part. Here the land lies too high for irrigation. There are numerous springs in the mountains but too remote for cattle use. The solution of the water problem on the cattle range is wells.

THE CATTLE INDUSTRY.

The cattle leases were about to expire when I was at Mescalero and new leases were being arranged. The leases have been running from year to year. The permittees say if they are given two or three year leases they can afford to sink wells and will do so. It strikes me this should be done. The tribal herd will not require much more land for three or four years and this can be provided for by not leasing the pasture adjacent to the one used by the herd. At the expiration of a lease all improvements made thereon revert to the reservation. If the leases are made for longer periods and the lessees drive wells, the reservation would get the wells at the termination of the lease. A well costs from \$2,000 to \$3,000. Supt. Light has recommended longer leases.

It is estimated that with enough wells this reservation can graze 20,000 cattle. At present there are about 12,000 cattle belonging to lessees, and as the tribal herd increases the number of lessees' cattle will decrease, for the tribal herd will require the pastures. A charge of \$3 a head for beef animals and 60 cents for sheep and goats is made for permits. This is about at the rate of 10 cents an acre. The tribal herd was started in June, 1914; the original investment was around \$65,000. The total investment to December 31, 1917, amounted to \$85,758.16, of which \$69,838.60 is reimbursable. The Indians paid for the difference, so that the Government's claim

against the tribe is not quite \$70,000.

The last inventory of the herd, December 31, 1917, gave a total valuation of tribal herd property of \$143,688, showing profit over total investment of \$57,929.94. The inventory follows:

1,188 cows, 4 years old, at \$60	
2 mules, at \$200	400.00 2, 500.00 108.00 25.00 500.00
TotalCost	143, 688. 00 85, 758. 16 57, 929, 84

I found these Indians taking more personal interest in the tribal herd than the Blackfeet and Crows do in theirs. They really seem to understand that the cattle branded with "U. S." and the bow and arrow is their cattle, although there are some confusion in their minds as to their liability to the Government. Supt. Light is enthusiastic over the herd and its possibilities. He has induced some of the Indians to buy cattle to run with the herd (branding them with their individual marks) and is sanguine that he will get more.

There are over 2,500 Indian ponies—scrub stock—running over the ranges. Each pony eats more grass than a full-grown steer. Something will have to be done to stop this waste. For generations the Apache Indians measured their wealth according to the number of ponies they owned. It will be difficult to overcome this tribal tradition, but Mr. Light is trying to persuade the Indians to sell their ponies, even at small prices, and buy cattle.

THE SHEEP ASSOCIATION.

A number of years ago an issue of sheep was made to the Mescalero Indians. Most of them soon got rid of their sheep; but some held them, and the little flocks increased. Ten of these flockmasters—one is a woman—organized themselves into the Mescalero Indian Sheep Association. The flocks aggregated 6,000 sheep, and last year the association sold \$17,394.50 worth of lambs and \$11,000 worth of wool, making the year's income over \$28,000. The business of the association is handled through the superintendent's office. In addition three Indians own about 3,000 Angora goats. There are thousands of acres on the sides of the mountains peculiarly adapted to goat raising; they can not be used for sheep or cattle, and an effort should be made to stock such areas with goats.

The Fort Sill Indians (the Apaches, known as Geronimo's Band, who for many years were held at Fort Sill, Okla., as prisoners of war and who were brought to the Mescalero Reservation five years ago) bought last year 700 head of cattle from individual funds. They are under the supervision of the live-stock superintendent and

are doing well. As the tribal herd and the Indian-owned stock increase in number the grazing permits will decrease, and it is estimated, at the present rate of increase, the Indians will have enough stock to graze the entire reservation in eight years. All the grazing land of the reservation is used by Indians or permittees.

With the superintendent I went to the tribal herd pasture in the northeast section of the reservation and found the Hereford cattle in particularly fine condition—fat and sleek. Two deep wells have been driven for them, and there are all the necessary corrals and equipments for a cattle outfit. The individually owned cattle number between 800 and 900, most of which run with the tribal herd.

Some day this reservation may be the center of a large lumbering business. It is estimated there are over a billion and a half feet of merchantable pine and fir on the mountains. I was told that a large amount of timber is matured and should be cut; that much is dying; and that there is a large loss of merchantable timber each year due to maturity and other causes. A value of \$3,500,000 has been placed on the timber, and the Indians are eager for lumber operations to begin. There also is a strong local feeling among the whites in favor of cutting the timber. The Government has a couple of small sawmills on the reservation, but they now are without steam power. A portable engine and boiler should be bought to make one of the mills available for local lumber demands.

GERONIMO'S BAND.

The last reservation census showed a population of 627, of which 444 are the Mescalero Apaches and 183 are the Fort Sill immigrants and their children. The Mescaleros did not take kindly to the newcomers, although at the time it was said they welcomed the exprisoners of war with open arms. There now is a more neighborly feeling between the two groups. The Fort Sill Apaches are settled in White Tail Canyon (or valley), about 18 miles to the southeast of the agency. Many are good "dry" farmers, for their land is not irrigated.

The Government built small three-room houses for them. The houses were built out of green lumber, cut and dressed in the little mill installed in the timber near the home sites. Naturally, the lumber being green, warped badly, so that all the houses have large cracks which let in the wind, and the roofs leak. The Government was to provide enough wells to conveniently furnish domestic water. Some wells were driven, but three of them proved to be dry. Consequently, some of the Indians are compelled to carry water for a

distance of 3 miles—six miles a round trip.

Supt. Light learned there was an available balance in the Treasury to the credit of the Fort Sill Indians and he proposes to lay pipe from the sawmill well so that every house will have a tap. The Indians are convinced that this balance of \$15,000 is what they call their "fund money," the proceeds of the sale of live stock, farm implements, etc., when they moved from Fort Sill. They object to using this money for a water system, claiming the Government, having assumed the responsibility of moving them from their Fort Sill homes, should provide water for their new homes. They

say they want their "fund money" to meet pressing needs in the way of food, wagons, implements, etc. I met a large number of them at the home of Mr. Frank H. Wilson, the subagent at White Tail, and held council with them. The Rev. Richmond H. Harper, a missionary of the Dutch Reformed Church, of Fort Sill, who was

their pastor before they moved from Fort Sill, was present.

Some interested person from the outside has put into their heads the suggestion that the Apaches who come from San Carlos, Ariz.. still retain valuable tribal rights there. I told them they were foolish to think of such a thing; that if they had rights at San Carlos they would have to move there and become enrolled and that they then would have to give up all their rights in the Mescalero Reservation. I was at San Carlos last year and the present and future of the Geronimo Apaches on the Mescalero Reservation are unquestionably better in every way than anything they might get at San Carlos.

INDIANS WANT A DAY SCHOOL.

The Fort Sills told me they wanted a day school at White Tail for the small children, some of whom now are in the agency boarding school. I brought this request to the attention of Supt. Light and he thought a day school might be placed there. Mrs. Wilson, wife of subagent Wilson, is the field matron at White Tail, and the Indians could not have a better one. A community center is needed at White Tail; an inexpensive house where the women could come to meet the field matron, where instruction could be given; where social meetings could be held. There is a blacksmith's equipment at White Tail and one of the Indians should be detailed as the village blacksmith. As it now is every plowshare, every repair on a wagon or implement, must be taken to the agency blacksmith at Mescalero, 18 miles distant. The Fort Sill Indians also want a jack and a stallion to upbreed their mules and horses.

I asked Mr. Harper if he saw any difference between the Apaches who remained at Fort Sill and those who came to Mescalero. He said he noted a distinct falling down in the matter of discipline and habits of industry on the part of the Mescalero Indians as compared to those who stayed in Oklahoma. He pointed out that when they were prisoners of war they were kept under military discipline; they did what they were told to do; they kept their children at school, etc. He said the Oklahoma Apaches, who are living on their farms, are citizens of the United States; are at work, and are further advanced than are the Mescaleros. But, he added, the prospects at Mescalero are better and he felt rather

optimistic.

It was interesting to find that Naiche, who, it is claimed was the real war chief of Geronimo's raiders, is active in church work at White Tail; that old Chief Victoria's son is a policeman at the subagency; that Geronimo's son is disciplinarian at the agency boarding school; and that Geronimo's widow bought \$500 worth of Liberty bonds and wears the Red Cross button. There are only a few of the original Geronimo Band living.

The children of Geronimo's raiders and their children, most of whom were born prisoners of war, live in houses and cultivate

patches of land in the White Tail Valley. All of the houses are in fenced inclosures, have cistern tanks for water, and most of them have root cellars. Few have homes or even shelters for their work animals. They claim the Government promised to build barns. Almost all the individual money brought from Fort Sill has been expended, much of it going into stock, horses, wagons, implements, etc.

THE MESCALERO APACHES.

The Mescalero Apaches (as distinguished from the Fort Sills) do not live in houses. With a few exceptions they live in canvas and muslin tents and tepees, for they move with the seasons. In winter they camp on the lower levels and in summer they go to the highlands. Most of them do their farming in Elk Canyon; last year their crops were failures, while the Fort Sills, at White Tail, had good crops. The Mescaleros are more primitive in some ways than the Fort Sills; they still burn down the tepee in which a death occurs and mothers-in-law are not allowed to speak to their sons-in-law. But they are more moral than most Indians; many of them incline to industrious habits and in many respects they are a superior lot of Indians.

All the Indians on the reservation are well inclined to good order and proper living. There is some gambling; the women, in this respect, are the worst offenders. Supt. Light told me there is but little alcoholic drinking. There are two missions on the reservation—the Dutch Reformed Church and the Catholic Church—and both of them are doing effective work. All the male Indians wear white men's clothing and many of them understand and speak

English.

The principal retarding influence to progress is the women. They are more inclined to be conservative and keep to the old ways than the men. A good field matron, properly equipped and housed and provided with an automobile, is needed for the Mescalero Apaches. The right kind of a woman could do much to hasten the progress of these Indians.

The reservation boarding school, located at Mescalero, has a capacity of only 100 and is overcrowded. The Indians seem to want their children to go to school. There are about 175 children eligible for school and about 35 can not attend for want of accommodations. If a day school were placed at White Tail all the children of school age could be taken care of. So far as I could see, the boarding school is in good shape. Facilities for giving industrial training are limited and ought to be increased. More dormitory and school capacity should be provided. A number of children are in non-reservation schools. The "returned students" on this reservation show up pretty well; some are "no account," but most of them give proof that their schooling has been of much benefit.

The employees, agency and school, seemed to me to be above the average, and I noted no indications of discord or factionalism. But the low salaries paid employees of the Indian Service is a disquieting influence here as it is in every reservation I have visited, and unless salaries are raised the service will lose all its efficient people. The paltry 10 per cent increase is not and will not be enough to hold men

and women in the service. This is an isolated reservation. There is little here but scenery to attract. If the Government is going to continue its guardianship of Indians it must hire agents, and when it sends its agents to small isolated places like Mescalero it should

pay them well for the sacrifices they must make.

The agency physician told me the general health conditions are fair; there is some tuberculosis and trachoma. Last February a new hospital of the standard kind was opened for the treatment of tuberculosis. For a time the Indians would have nothing to do with it, but now they patronize it to its full capacity of 20 beds. Only incipient cases are admitted, and so good have been the results that the

Indians have entirely lost their former prejudice against it.

While the general plan of the hospital is good, it is not provided with an operating room or surgical-dressing case; it has no dispensary connected with it, no room that can be used as a maternity ward, and no separate dining room for the doctor, nurses, and employees. All are needed. The strong superstition of the Mescaleros, which causes them to burn the tepee or desert the house in which a death occurs, is a cause of considerable worry to the hospital staff. They fear that the Indians will keep away from the hospital if one should die in it. It was for that reason a man just about to die from pneumonia was carried to a tent outside and died there. The tent had been well prepared, in case he did not die at once, so that he could be kept there.

The Indians have not been allotted on this reservation. As I have shown, there are less than 10,000 acres classed as agricultural land, of which only 400 are irrigable; the balance is "dry-farming" land, and all of it lies in canyons and valleys in small areas. In addition to the recognized agricultural land there are several large areas that might produce an occasional crop that would be called by the white people of New Mexico "agricultural land." Its high altitude and remoteness from water would make cultivation of this land hazardous even if it were used by expert white dry farmers. As it can be relied on to produce a good crop of grass each year, it should be

held as pasture land.

The Indians have selected farming lands and have all the rights to such lands which they would have by allotment except title. If the land now classed as agricultural were allotted each Indian would get less than 15 acres; there would be less than an acre apiece of irrigable land. Fifteen acres of high altitude dry-farming land

would not support its owner.

I am convinced that the grazing and timber areas should be held as tribal lands for a number of years. It certainly would be poor business to split the timberlands into allotments when, eventually, this land must be handled in large units for cutting and manufacturing the timber. The grazing lands also should be held as tribal property, at least until the Indians have become successful cattle raisers. It might be well, in a few years, to set aside home sites and allot them, but not until the Mescaleros have developed out of what might be called their "seasonal nomadic" habits. The Fort Sill Indians could be allotted home sites now, but were that done it might tend to breed discord between them and the Mescaleros.

RECOMMENDATIONS.

In conclusion I beg to suggest the following recommendations:

First. That a certain portion of their grass money be set aside each year to meet the emergency needs of the Indians for food, clothing, and agricultural purposes.

Second. That a portable engine and boiler of sufficient capacity be bought to make one of the sawmills available for local lumber

needs.

Third. That a day school for small children and a community center for the women be provided for the Fort Sill Indians at White Tail.

Fourth. That a field matron, fully equipped and provided with a house and automobile, be detailed for the Mescalero Apaches.

Fifth. That the hospital be provided with an operating room, dispensary, maternity ward, and a separate dining room for the doctor and nurses and employees.

Sixth. That an additional thrashing outfit for the Carrizo and Tularosa districts be purchased and an additional farmer be authorized for the Carrizo district.

Respectfully submitted.

MALCOLM McDowell.

Hon. George VAUX, Jr., Chairman.

APPENDIX N.

REPORT ON THE GREENVILLE JURISDICTION, CALIFORNIA, BY MALCOLM McDOWELL.

WASHINGTON, D. C., May 4, 1918.

Sir: Following is a report of my investigation of affairs in the Greenville, Cal., jurisdiction made pursuant to authorization. I arrived at the Greenville School on the morning of April 16, 1918,

and was in that country until April 20.

This jurisdiction includes the Greenville Indian Boarding School and the agency, which has supervision over nearly 9,000 nonreservation Indians in 10 counties of northern California, which, with their areas in square miles, are as follows: Butte, 1,764; Shasta, 4,059; Trinity, 3,276; Yuba, 625; Siskiyou, 6,078; Sierra, 910; Plumas, 2,361; Tehana, 3,200; Lassen, 4,750; Del Norte, 1,546; total area of the Greenville jurisdiction, 28,569 square miles.

The original Greenville Agency took in only Sierra, Yuba, Plumas, and Butte Counties, but a few months ago the Roseburg (Oreg.) Agency, which had charge of the nonreservation Indians in Oregon and northern California, was discontinued and the California Indians turned over to Greenville. There is some confusion as to the exact territory given to Greenville, and it is probable there will be some readjustment of jurisdiction between Reno Agency and Greenville. But the changes, if made, will not materially affect the conclusion I formed after completing my survey, that neither Supt. Edgar K. Miller nor any other equally enthusiastic and hard-working

man possibly can properly handle both the school and agency work unless additional clerical help and sufficient money for agency ex-

penses are provided.

This urgent need is so obvious to any interested man who goes into that jurisdiction that I can account for the lack of administrative facilities only on the ground that the Indian Office did not fully appreciate the situation, and this seemed to be the case, fer, when I presented the matter on my return to Washington, action to meet the emergency in part was taken immediately by the Indian Office.

But if the nonreservation Indians in the 28,569 square miles of mountainous country of northern California are to be looked after as they should be, there will have to be a rearrangement of organization in the Greenville district which will make the agency activities the important feature in the jurisdiction. The outcome of a rearrangement made with the purpose of solving the problems presented by the nonreservation Indians may be the abandonment of the Greenville or the Fort Bidwell Boarding School, but the condition of affairs can be improved immediately if the Greenville School is placed in charge of a competent principal, under the supervision of the superintendent, so that the latter may devote the major part of his time to the agency work, with the assistance of subagents at Susanville and Redding.

This is an administrative matter and entirely in the hands of the Indian Office, but I feel confident that had Commissioner Sells been able to visit Greenville when he wanted he would have grasped the situation and ordered the necessary changes, for he would have found a body of Indians ripe for citizenship and, for that very reason, in need now of intelligent and sympathetic supervision and assistance.

INDIANS ARE COMPETENT.

Most of the allotted Indians were allotted under the Dawes Act of February 8, 1887, but their trust patents bear a date after the Burke Act of May 8, 1906, which puts them in the class of restricted Indians although they also are nonreservation Indians. There has been no accurate census taken of them, but a conservative estimate, based on various incomplete reports, places the population at about 9,000, divided nearly equally between citizen and noncitizen Indians.

They do not live as tribal Indians, for they have no tribal relations. They are grouped by the white people under the general head of "Diggers." They dress like white people and have many of the habits and customs of the whites. Many of them are successful farmers, and, as a whole, the Indians around Greenville are well regarded by their white neighbors as good reliable workmen. I would have no hesitancy in declaring most of them fully competent to handle their own affairs. They are near to full citizenship; by that I mean they are about ready to be given their patents in fee and be entirely released from all governmental supervision.

But before this highly desirable action can be taken their land affairs must be straightened out and their business with the Government must be settled. For many years the landed interests of these Indians were sadly neglected. The files in the Greenville office disclose the fact that in many instances Indians were robbed of their

lands by individuals and corporations. In many more cases the Indians did not get anywhere near what their land and timber were worth.

The land-getting transactions, which occurred a number of years ago, are beyond recall, but they are not so apt to occur again, for the Indians now know the value of their property, and there recently has been a distinct and almost astounding change in public sentiment toward this people, who but a short time ago were regarded as almost beneath any consideration of the whites. In fact, they were despised and were tolerated only because some of them were good unskilled workmen.

I have it on the word of several public officials in the counties around Greenville that this change in public sentiment was brought about by Supt. Miller. One supervisor went so far as to tell me he felt very sorry because in the beginning of Mr. Miller's crusade in behalf of his charges he had misjudged the superintendent and his motives, and he wanted me to know that he and all the other town and county officials were now in hearty accord with Mr. Miller and were cooperating with him in his efforts to make good citizens out of the Diggers. He added that the Indians not only were ready but were

willing to assume the responsibilities of full citizenship.

Besides the Indians who are wards of the Government because they hold patents to allotted lands there are a number who are not wards but who are tied up with the Government because they have inherited lands, trust funds, and individual Indian moneys. Before they can become full—that is, entirely unrestricted—citizens their affairs with the Government must be settled, and they can not be completely released from governmental control until all the land titles are cleared by hearings and they are given patents in fee or the land sold and the money turned over to them. The only agency that can do this work is the Government, and the Government must act through the official in charge of the Greenville Agency. I learned that when inherited allotments are sold the beneficiaries generally bought smaller tracts of land and built permanent houses with the money and thus beame taxpaying citizens. This, I may add, is unusual, and is one of the several strong indications that these Indians are competent.

WORK OF THE AGENCY.

In addition to all of the work I have just referred to, the Greenville Agency must adjust trespass cases, such as where timber is cut by white men without authority on Indian land, and where railroads, copper mines, and lumber mills injure Indian land. There also is land to be leased, rights of way granted, timber from allotments sold to mills, land titles cleared, double allotments straightened out, public-school contracts made, the whisky traffic suppressed, and in many other ways the rights and privileges of the Indians maintained.

The duties and responsibilities of the Greenville Agency are not confined to a small area easily accessible from headquarters. The district covers over 28,000 square miles of the roughest of mountainous country, with roads which are closed to travel in many parts from early fall to late spring. The development of this country is in its infancy, but railroads now are going into it, mines are being opened

up, lumber mills are being built, farming lands are being drained, and irrigation systems are being started. This development is making "jobs" for the Indians and troubles for the agency, for Indian allotments are scattered all over the several counties and there are constant calls for surveys, leases, readjustments, checking trespassers,

Unless there is a good Government man on the alert all the time the material and moral welfare of the Indians is bound to suffer. History should not be permitted to repeat itself in the case of these Indians; they have been neglected and robbed and mistreated, and the atrocious record of white men's avarice and caprice stands as a scathing indictment against us, the ruling race. It is greatly to the credit of the present administration of Indian affairs that in recent years the Indians have been made more secure in their rights and property. But there still is much room for improvement. There is this to say: The character of the country presents topographical difficulties which seriously embarrass efforts to reach all the Indians. Undoubtedly much of the failure to properly protect the Indians was due to the large areas of mountainous country, inadequate facilities

for transportation, and the long winters.

But traveling conditions have improved; the Indians have learned how to reach the agent with their troubles and many of them have learned how to look after their affairs themselves to a larger degree. With an efficient agent at headquarters, free to move around the country and with sufficient clerical help, together with subagencies at Redding and Susanville and some good field matrons, it would not take many years to wind up the affairs of the Greenville Agency, for its charges then would be qualified to become full American citizens. Entirely aside from the moral obligations of the Government to these Indians it would be good business policy to separate the agency from the school in this jurisdiction, give the agent men and money sufficient to carry on the agency work along lines planned to make citizens of all Indians in a few years and entirely release them from governmental guardianship and supervision. I am fully convinced that if this program were carried out the expense of maintaining the Greenville Agency would cease in a few years and most of the Indian children would be attending the public schools, thus reducing the appropriation made by Congress for educating Indian boys and girls.

HOME AND MORAL CONDITIONS.

This process of hastening the progress of these Indians would arrive at a successful conclusion much sooner if a campaign for bettering home conditions were started now. The moral and home conditions of the Indians require immediate attention. They should be and can be greatly improved and the way to reach the homes is through the Indian women. This would call for the services of capable field matrons, one each at Greenville, Redding, and SusanviÎle.

I am aware that the carrying out of the program I have suggested would materially increase the present expenses of the Greenville Agency. But it must be borne in mind that the Roseburg Agency, which carried a personnel of a superintendent, salary \$1,600; two clerks at Roseburg, at \$1,200 and \$1,000 a year; a clerk at Redding, \$1,500; one at Susanville, \$1,000; and a field matron at Susanville, at \$300, has been discontinued, and I doubt if the pay roll of a

separate Greenville Agency would be much, if any, larger.

When I was at Greenville the superintendent of the Greenville School, Mr. Miller, was attempting to carry on the agency work alone, with some help from the school clerk. He had no money for agency expenses, no subagents at Redding and Susanville, no agency clerk, or stenographer. Manifestly it was a physical impossibility for him to do much of anything for he had the school to look after. And the boarding school, while it is at present a necessity, is the minor activity at Greenville; the important work is hastening the advancement toward release from governmental control of the non-

reservation Indians, and this is agency work.

From what I had been told I had the impression that Greenville was but a little nonreservation school tucked away among the mountains of Plumas County and maintained for the benefit of the children of a lot of poor, homeless, landless "down-and-out" Indians. To my surprise I found myself in one of the most attractive schools I have seen, clean, well kept and giving every evidence of first-class administration, the scholars bright, clean, alert, and polite, and, to all appearances, happy and contented. Most of them belonged to the Digger class (Digger is not the name of a tribe). As I have indicated, I found the Digger Indians superior in many ways to most Indians—and here again I met an agreeable surprise. Nearly a hundred of the young Indians in this section have gone into the Army and Navy. I saw many service flags with stars in the windows of a number of Indian homes, with Red Cross membership flags and Food Administration cards.

CHANGE IN PUBLIC OPINION.

I have mentioned the change in public sentiment toward the Two years ago the county officials refused to aid old and indigent Diggers and ignored appeals to care for those afflicted with tuberculosis. Now the county has assumed the obligation of caring for the old and indigent and recently the counties in the Greenville jurisdiction united to build a hospital for tubercular patients and in it there will be provisions for caring for Indians. The county authorities now bury Indians who die poor, when requested to do so by Supt. Miller. The truant officers cooperate with the superintendent in handling truancy and juvenile court cases and the attendance of Indian children in the public schools has increased 300 per cent in the last two years.

An interesting side light was thrown on this change in public opinion by a ruling made by the local board for Plumas County in the case of an exemption filed in behalf of a noncitizen Indian who had been drafted. (The Indian himself did not want to escape the draft; he now is on the western front, fighting in France.) was in the nature of a test case, and the local board held "that there are no Indians in Plumas County living in tribal relations, and such Indians who are dependent are the wards of the State and entitled to aid as such, and such Indians are subject to military duty and should be excused therefrom on such grounds only as would relieve

other citizens from military duty and service."

This ruling was based on a decision of the Supreme Court of California in the case of Ethan Anderson v. Shafter Mathews, which was handed down March 8, 1917, and which is one of the most, if not the most, important decisions made by that court in respect to the status of the California Indians. Anderson, the plaintiff, was a Lake County Indian who prayed for a writ of mandate against the defendant, Mathews, county clerk of Lake County, who had refused to register the Indian as a voter. The decision fixed the status of the nonreservation or public domain Indians in California as full citizens, entitled to citizen rights and amenable to all State laws, the same as white citizens.

I have cited the ruling of the local board and the decision of the supreme court to emphasize the necessity of immediate action to hasten the progress of the Indians in the Greenville jurisdiction. The dictums of the public officials indicate the favorable attitude of the white people of California toward their Indian neighbors, and this favorable attitude can be energized into an active cooperation which will make it comparatively easy for the superintendent to carry out a program along the lines I have suggested. In other words, the time is ripe for putting into effect in this agency the principles set forth in

Commissioner Sells's declaration of policy.

All or part of the Plumas, Shasta, Lassen, Klamath, Siskiyou, Tahoe, and Trinity National Forests are in the Greenville jurisdiction, and many Indians were on lands subsequently taken into these great timber reserves by acts of Congress. It has been ruled that the Indians should vacate the lands they occupied, though some of them have good improvements on them. It is held by some of the officials of the Indian Service that such Indians hold proper equity in their forest lands because they were there before the land was made a forest reserve and held undisputed title to it for many years. This matter should be taken up and settled; the uncertainty of possession and title operates to hinder the advancement of the Indians.

And it is only fair to the Indians that their land status in the national forests be established, and that soon. A number of Indians were in the forests at the time of the act of June 20, 1910, which permits an Indian to take an allotment in a national forest, and they desire to get land under the provisions of that act. They should be

aided in this matter.

I have purposely refrained from going into the details of administration, life, and conditions, many of them interesting and important, for it seems to me the big, outstanding fact in the Greenville situation is the necessity for immediate consideration of the problem affecting the near future of the nonreservation Indians. The proper solution of this problem will solve all the minor problems, and they are many.

RECOMMENDATIONS.

To that end I beg leave to recommend that the superintendent of the Greenville School be given an adequate school force which will relieve him of the details of school administration and that he be provided with sufficient agency clerks and field matrons, with additional funds, so that he may devote the major portion of his time to looking after the affairs of the nonreservation citizens and noncitizen Indians under his supervision.

Respectfully submitted.

MALCOLM McDowell

Hon. GEORGE VAUX, Jr., Chairman.

APPENDIX O.

REPORT ON THE BOUND VALLEY SCHOOL AND AGENCY, CAL., BY DANIEL SMILEY.

MOHONK LAKE, N. Y., May 1, 1918.

Sir: Accompanied by Secretary McDowell, I made a survey of conditions in the Round Valley jurisdiction in northwestern Califor-

nia and submit the following as my report:

We were in that country from March 29 to April 5, 1918, inclusive, visiting the Round Valley School or Reservation and a number of the rancherias which are under the supervision of Supt. Walter W. McConihe. In the beginning of this report I desire to express our appreciation of the effective assistance we had from Mr. McConihe, who gave us the benefit of his long and varied experience in the Indian Service and who placed himself, his office,

and his time entirely at our disposal.

Within this jurisdiction are two distinct activities of the Indian Service—the Round Valley School or Reservation, with its agency 2 miles from Covelo, Mendocino County (Covelo is 16 miles over the mountains east of Dos Rios, a town about 150 miles north of San Francisco, on the Northwestern Pacific Railroad), which also is the agency having supervision over a large number of nonreservation Indians who live in 20 communities or rancherias in Mendocino, Sonoma, and Lake Counties. On the reservation are 641 Indians of the Concow, Pitt River, Nomelackie, Little Lake, Redwood, Ukie, and Wylackie Bands and 1,160 Indians live in the rancherias. The rancherias and their populations are as follows:

Mendocina County: Laytonville, 46; Sherwood, 44; Cuyotte, 26; Pinoliville, 115; Guidiville, 35; Yokaia, 92; Hopland, 101; Manches-

ter, 88.

Lake County: Upper Lake (Robinson's ranch), 82; Hardesty ranch, 85; Lower Lake vicinity, 30; Sulphur Lake vicinity, 17; Coyote Valley and Middletown, 44; Scott Valley and Lakeport, 71; Big Valley, 60; Potter Valley, 50.

Sonoma County: Cashia Tribe (Stewarts Point), 108; Geyerville,

25; North Cache Creek and Long Valley, 24.

The tribes represented among the nonreservation Indians include the Pomos, Concows, Noyos, Sanels, Ukies, Pitt Rivers, Wylackies,

and Nomelackies.

The juxtaposition of two classes of Indians, reservation and nonreservation, in charge of one superintendent, living under like conditions of climate, topography, soil, environment, and livelihood, but differing widely in their relations to the Government, for one set of Indians are wards of the Government though some of them are

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voters, and the other set are assisted Indian citizens who are not wards of the Government, gave us an admirable opportunity to make a comparison of the effects of two kinds of supervision, one of which is Federal guardianship of restricted, allotted Indians and the other

is limited to governmental aid only.

In dealing with the nonreservation Indians the superintendent has no authority over their persons or property. They come and go as they will; they live on Government-owned land at the pleasure of the Government, which can remove them therefrom at any time, but which has practically guaranteed them home sites so long as they occupy the land for that purpose. In short, the rancheria Indians are the beneficiaries of a practical, sane philanthropy, as I will explain later.

THE PROBLEM AT ROUND VALLEY.

The outstanding problem of the Round Valley Reservation Indians is raised by the near expiration, by time limitation, of their 25-year trust period. In 1920 the allotted Indians in Round Valley, unless congressional or departmental action intervenes, will be given patents in fee and any funds which the Government may be holding for them; then they should become unrestricted, patent in fee Indians, full citizens of the State and Nation and removed from

Federal guardianship.

The land which will be turned over to them is the agricultural allotments in the valley; there still will remain the lands in the mountain pastures, which were allotted in 1911. The trust period of the upland allotments will not expire until 1936. The problem, then, can be set forth in this question: Shall these Indians be given their patents in fee for the valley lands in 1920 and be restricted in the ownership of their mountain allotments until 1936 or shall they be given unrestricted control of all their land and be turned entirely loose in 1920?

Some of the older Indians do not want their patents in fee, but apparently the majority of the Indians are impatiently awaiting February 12, 1920, when the trust period expires on the valley allotments. Our inquiries developed a wide difference in opinions as to the probability of the Indians selling their lands soon after receiving fee patents. Undoubtedly a large proportion of them will sell and spend the proceeds almost immediately and soon will find themselves without land or money. But most of such will be young men; the older Indians, or most of them, will either hold on to their

property and use it or will be slow to sell.

These Indians have been under governmental control for nearly a quarter of a century. They have had schools provided for them; the Government has stood between them and avaricious white men: they have had the advantage of long association with white people: many of them as children lived with white families; all of them speak and many write and read English; they wear white men's clothes; they have learned the use of modern agricultural implements, for they work for white farmers; they live in houses which have wood floors and use cooking stoves, beds, chairs, and other furniture; some have automobiles; of late years no restrictions have been placed on their goings and comings, for they leave the valley

to find work in the hop fields, vineyards, ranches, and at wool shearing; a number of them are first-class farmers; in brief, they are

qualified to make their unaided way in the world.

But governmental control and supervision have made them timid in accepting responsibility, reluctant to take the initiative, unwilling to make decisions, and, seemingly, have educated in them the belief that whatever they do or do not do the Government, through the superintendent, is bound to take good care of them. I do not wish to convey the impression that these Round Valley Indians are lazy, unprogressive, or worthless; for, as a matter of fact, they are more inclined toward industry than are most Indians. But they are typical reservation Indians and are so imbued with the idea that the Government took a 25-year contract to take care of them when the 25-year trust period was placed on their lands and money that many of them became indolent and do not work when work is easily obtainable, and most of them are improvident. We learned that their reputation for industry and trustworthiness is none too good among their white neighbors.

TRUST PERIOD ABOUT TO EXPIRE,

Notwithstanding their shortcomings we could find no sound reason why they should not be given all their lands, both valley and upland allotments, when the trust period for the valley lands expires in two years and all other property held in trust for them. I, then, would separate them entirely from governmental control and supervision and let them go their ways. If some dispose of their property and become landless and penniless, that is their concern. They had their chance and choice.

I am more and more inclined to the belief that Indians ought to be treated like other people—give them a fair chance and then let them work out their own salvation. In the case of the Round Valley Indians, where there is any reasonable expectation that allottees will use their property as the average white man would use his the property should be released from restrictions and turned over to them. There may be exceptional cases—the very old, the helpless, the mentally incompetent—where it would be best for the Government to retain some measure of supervision; but, as a general proposition, these Indians should be released in every way from governmental control and supervision.

If an Indian is pretty certain to sell his land and waste the proceeds, and there seems to be no reasonable chance to reform him, he should be given his property. Then let him waste it if he will. A paternal Government, except to a limited extent, is un-American. I think, as a Nation, we do not want to hold Indians indefinitely as Federal wards, and it is only a question of time when they should be given complete independence. If a body of Indians are making progress in their ability to control their affairs we should have patience to wait, and, while waiting, help them; but if they are making no progress that we can see, then there is nothing to be gained by waiting and holding their property for them indefinitely.

These thoughts apply with considerable force to the Indians in Round Valley. Here is a typical case of what was contemplated

and what we ought to do. There are some old, helpless, and hopelessly incapable Indians in the valley who should be taken care of—a simple matter of ordinary philanthropy. Supt. McConihe's suggestion that the unused and practically abandoned dormitories and the mess building on the agency grounds be turned into an old people's home in which to care for the old and helpless Indians seems to be practical and might be favorably considered by Commissioner Sells. But I have seen nothing on the Round Valley Reservation which leads me even to suggest that the Government delay turning these Indians entirely loose when the 25-year period expires in 1920.

THE RESERVATION AND SCHOOL LANDS.

The Round Valley Reservation contains 43,515 acres, of which 958 acres belong to the school and agency, 479 acres are unallotted (most of it is unfit for any useful purpose), and 42,078 acres are allotted. Of the allotted lands 5,386 acres of fine arable soil lie in Round Valley and 36,692 acres, divided equally between open-country grazing land and timberland covered with pasture grasses, lie in the uplands on the high hills. The allotments of valley land, 10 acres to each allotment, to 622 Indians were approved February 12, 1895.

The 614 mountain allotments were approved July 11, 1911.

The Round Valley Reservation Boarding School was abolished a few years ago, and the school plant is idle. Some of the buildings, notably the structure formerly used as a girls' dormitory, and the mess building for employees are in a fair state of preservation, but most of the 22 buildings are scarcely worth the scrapping. The 958 acres, however, belonging to the school and agency farm and pasture are valuable. Twenty-five acres are used for building sites and grounds, 16 acres for corrals, 652 acres for pasture, 160 acres are wooded, and the balance is in cultivation. When the work of giving independence to the Indians is completed the Government should be able to realize a tidy profit on the land, for it is carried on the books at a value of only \$24 an acre, probably the original investment price, whereas farming land in the neighborhood, some of it not nearly so good, is held at prices ranging from \$50 to \$125 an acre. It might be practical to reopen this school as an agricultural school for the Indians now under the supervision of the agency. I offer this as a suggestion. This would not interfere with the idea of using part of the plant and grounds for an old people's home for the care of the aged and helpless Indians.

The records in Supt. McConihe's office show there are 441 children eligible for school in the jurisdiction; that 92 of them are enrolled in nonreservation schools (a majority of them in Sherman Institute), and 173 are attending the agency and public day schools, leaving 189 school children unaccounted for. The Indians told us the white people do not like Indian children to attend public schools with white children. But some children living near Ukiah attend the public schools of that city, and I am of the opinion that in time any racial prejudice which may now exist will be removed, for the State board of education is favorable to the coeducation of white and Indian children in the public schools. If all Indian children could begin their primary grades in the public schools side by side with

white children, there would be little left of the Indian problem in

the next generation.

Near the agency headquarters of Round Valley is a public school attended almost entirely by Indian scholars. We attended Easter service in the mission church and heard a number of these children recite and sing and were much impressed by the earnest attention paid to the service by the older Indians. The English language only was used in the service. A few white people were in church, and all the Indian men and women wore modern attire. The only difference in appearance between the Indians and the whites in the congregation was in the color of their skins.

THE RANCHERIA INDIANS.

We visited the following rancherias: Pinoliville and Yokaia, near Ukiah; Hopland, Robinson's ranch at Upper Lake; and saw several

others which we did not inspect for lack of time.

The rancheria Indians once were of the class known as "landless" Indians—the remnants of tribes which, before the white gold hunters came, lived in the valleys of California north of Sacramento. Their pitiable history is of record; they were shamefully treated, driven from their homes, persecuted, murdered, and harassed until each tribe was reduced to only a few hundred individuals. They squatted where they could, on white men's land, until driven off, and led a miserable existence.

After a time the Government came to their aid, bought small tracts of land, assigned a home site to each family and, for the first time in years, these Indians had the assurance of permanent dwelling places from which they could not be driven. Some of the bands managed to buy small ranches for themselves. The Yokaia rancheria, about 6 miles southeast of Ukiah, for instance, is owned by the Indians. It contains 127 acres and the land title runs to a trustee, who was elected by the band for that purpose. There are 82 Indinas, grouped into

About 35 years ago the Yokaias were landless; huddled together, as squatters, on a white man's ranch. Because of ill treatment they decided to buy some land on which they might live. In 1885 they got together \$850 and bought a small ranch—the site of the rancheria—for \$4,500. A portion of the ranch was planted to hops at the time. By a fortunate coincidence the price of hops made a material advance that year and the yield was particularly heavy, so that the proceeds from the hop crop paid the balance due on the land and the Indians found themselves possessed of a fine ranch. At that time there were nearly 200 members of the band. For a time the population decreased, but of late years it has been slowly but continuously increasing.

The land is owned, of course, in common, but the only property used in common is a 40-acre farm on which is raised wheat, oats, and alfalfa. Enough of the product is sold to pay the taxes. The alfalfa is fed to the work animals, the owners paying for the feed, and thus the farm pays its running expenses. The business affairs of this, as well as the other rancherias, are managed by a "captain," selected because of his qualities of leadership, and the captains represent the

superintendent. Outside of advising them in matters affecting their relations to their neighbors and of helping them when they get into trouble, the Government, through the superintendent of Round Valley, has little to do with the Yokaias except to teach the children. Last September a schoolhouse was built and a young woman teacher, who is carried on the agency pay rolls, was installed. Several children from this rancheria are at Sherman Institute.

HOP FIELDS AND VINEYARDS.

We found the rancheria practically deserted, for the men and women had gone into the hop fields to begin their season's work, from which they will not return until the late autumn. This was the case in all the communities we visited. An Indian in this valley makes a contract with a white hop grower to care for an agreed acreage from about the last of March to the middle of July for from \$25 to \$30 an acre. This is an advance of from \$7 to \$10 an acre over last year's prices. The hop growers furnish the necessary tools and some of them houses; they also plow and cultivate the ground and provide pasture for the Indians' horses. The Indians feed themselves.

Under the contract they handle the vine until the hops are ready to pick. They have the help of their wives and children and some of them take contracts large enough to warrant them in hiring labor. They told us they "break" about even on their contracts; that is, they make a living for themselves and families during this part of the hop season. They find their profit in hop picking, which begins about the middle of August and continues for three weeks. A good

picker can make about \$85.

Grape picking begins three weeks after the close of the hop picking and lasts three or four weeks. This ends the seasonal work, and for the following five months there is little cash work to be done except cutting wood, and there is not enough of that to keep all the Indians busy. Some of them go considerable distances for sheep shearing and haymaking, and a few have continuous work on farms and ranches. In the spring, when the pinch comes, the local merchants sell supplies on credit, and the Indians told us the merchants treat them as they do white customers and are fair in their prices and interest rates. But when the debts are paid in the fall there is little left for the year's work.

RANCHERIA INDIANS TRUSTWORTHY.

I have gone into this economic phase of the rancheria Indians' lives somewhat fully to emphasize the fact that they, the nonreservation Indians, having practically but slight connection with the Government, are so trustworthy that white men make contracts with them to do important work. If the Indians should break a contract in the midst of the hop-growing season the white owner would suffer a decided loss. I doubt if a white man would place as much confidence in the average reservation Indian, although there are Round Valley Reservation Indians who undertake hop-field contracts. But I think they are exceptions to the general proposition, which

is that Indians who have lived for years under the paternal care of the Government have had little incentive to develop, through exercise, those qualities of judgment, initiative, responsibility, and independent thinking which are necessary to successfully obtain and perform gainful work. Neither have they been compelled, by stress of hard circumstances, to work for a livelihood. The rancheria Indians had to work to live and this condition has made them superior. in many ways, to the reservation Indians who are their neighbors

and, in many cases, their blood relatives.

In this connection I desire to express my approval of the way in which the Government has helped the rancheria Indians without pauperizing or coddling them-they were given an abiding place which, to all practical purposes, is their property; the Federal supervision is chiefly of an advisory character and its value and effectiveness depend upon the kind of a man the superintendent may be. But the contrast between the free citizen rancheria Indians and the restricted, closely supervised Round Valley Reservation Indians is so obvious that it strengthened my belief that the sooner the reservation Indians are set free from Federal control the better it will be for them, even though some of them may become landless

and penniless.

The Hopland rancheria, several miles south of Ukiah, containing 625 acres, is occupied by 23 families of Senel Indians, who always have lived in the neighborhood. The land was bought for them in 1907 and was settled three years later. It is divided into 8, 12, and 20 acre tracts (the topography is somewhat rough which accounts for the difference in acreages), each tract being assigned to the head of a family. As the Government holds the title to the land and uses it for the Indians, it is "Indian country," and all laws which protect Indians on reservations are in force on the rancheria. addition to the rancheria proper the Government owns an adjoining hill tract of 1,200 acres which is used by the Indians as a "hunting ground," though there is no game on it. It might be well to consider the advisability of raising goats on this tract.

The Hopland Indians have the reputation of being among the best of the Indians in that part of California, and the neat appearance of their homes and home lots and the general air of independence and selfpoise of the Hoplanders we met bore out the good opinion of the white people. These Indians, without assistance and with little advice, laid 5,000 feet of water pipe from a spring on the hill to the village, supplying the school and homes with fine running

water. It was a good piece of engineering work.

ATTITUDE OF COUNTY OFFICIALS.

The Pinoliville rancheria, 2 miles from Ukiah, is the site of the Ukiah Day School. The assigned land aggregates 103 acres, but the Indians have bought and hold under a trusteeship 160 acres on which they pay taxes. The Pinoliville Indians do not understand why the county officials are unwilling to admit old and indigent Indians to the county poorhouse or farm when the Indians pay taxes and vote and, in other ways, exercise the duties of full citizens. It appears that the county officials regard these Indians as wards

of the Government, notwithstanding a decision of the State supreme court which strongly implied that Federal guardianship does not necessarily bar California Indians from receiving the benefits of public institutions, such as hospitals and poorhouses. Some of the town people in Ukiah told Secretary McDowell that the rancheria Indians were a great deal better than the Mexicans and Chinese in that county and should be admitted to the hospital and poorhouse where the Mexicans and Chinese are taken in without question as to citizenship.

The rancherias in Lake County, which we visited and saw, Robinson's ranch and Cuyotte and those near Lakeport, are of the same character as those in Mendocino County, which I have described. We heard varying reports of the degrees of immorality among the rancheria Indians—some said they were very immoral; others that they were not more so than other Indians. Nevertheless we were satisfied that this matter of laxity of morals among the Indians in that part of the State is a problem to be handled by the white people of that section, for morality can not be legislated into any people; religion and education are the only agencies for righting wrongful living, and the responsibility of the morals of their Indian neighbors should be assumed by the white men and women of California.

It will be noted from this report that the superintendent of the Round Valley School serves in the dual capacity of superintendent of a reservation and agent for scattered bands of nonreservation Indians. His headquarters are 16 miles from a railroad point, which can be reached only over a mountain road almost impassable during the winter. At Round Valley are less than 700 Indians, who in a short time in all probability will be divorced from Government control. They then should be given the same assistance which now is given the nonreservation Indians.

Over 1,100 Indians, requiring the superintendent's advice and assistance, live in places remote from Round Valley. They are absent from their homes several months of the year in the spring, summer, and fall, when they work in the hop fields, vineyards, and orchards. It is practically impossible for the superintendent to visit them during this working season. In winter, when they are at home, when their children are attending school, when they need help, the superintendent is held at Round Valley.

It occurred to us that the agency headquarters should be moved to a more strategic point, such as Ukiah, from which the superintendent can reach more Indians oftener than he can from Round Valley. This is an important matter, and I would suggest that the Commissioner of Indian Affairs give it his best consideration.

RECOMMENDATIONS.

In conclusion I beg to recommend that when the 25-year trust period on the valley allotments in the Round Valley Reservation expire that the Secretary of the Interior take such action as will release from all restrictions both the valley and upland allotments, to the end that the Round Valley Indians be set loose entirely from governmental control and supervision of their lands and moneys, but that for some time the Government shall give the new citizens such

aid and encouragement as will help them to become independent land owners.

That the Commissioner of Indian Affairs be requested to inquire into the advisability of changing the agency headquarters from

Round Valley to a site on the Northwestern Pacific Railroad.

That the Commissioner of Indian Affairs be requested to consider the suggestion that the old school plant in Round Valley be utilized for a home for the old and indigent, a hospital, and a demonstration farm for the benefit of all the Indians in the Round Valley jurisdiction.

That a competent specialist in eye diseases be detailed to treat the

nonreservation Indians for trachoma.

That every effort be made to induce the county officials to admit nonreservation Indians to county institutions, and that earnest efforts be continued to place Indian children in the public schools.

Respectfully submitted.

DANIEL SMILEY.

Hon. GEORGE VAUX, Jr., Chairman.

APPENDIX P.

BEPORT ON THE CUSHMAN SCHOOL AND AGENCY, WASH., BY GEORGE VAUX., JR.

BRYN MAWR, Pa., June 1, 1918.

GENTLEMEN: I have the honor to report that in company with Commissioner Ketcham I visited the Cushman School, Tacoma, Wash., and some of the reservations connected with it, our stay

lasting from April 12 to April 15, 1918.

The school itself had been closed last summer and was reopened in the autumn under Supt. Ernest H. Hammond, who, of course, had to completely reorganize the entire staff. With the difficulty of procuring help at the time this was a serious handicap and the school has suffered materially because some important positions have not been filled, making it necessary for a single officer or employee to perform the duties usually performed by two or three different persons.

THE SCHOOL PLANT.

The school buildings are all modern and in fairly good condition, while the equipment, in some lines, is particularly good, especially the machine shops. Opportunities for agricultural pursuits are quite limited, as there is no ground at all available for such purposes. The Indians who attend this school come largely from the extreme West. In addition, there are a number of Alaskans. It would seem to be worthy of serious consideration on the part of the bureau that if both the Cushman and the Salem Schools are to be continued, mechanical activities, including training, in connection with branches that would be valuable in the fishing industries should be strongly emphasized at Cushman and those pertaining to agriculture should be more freely taught at Chemawa.

This would appear to be in the lines of economy of management and would also be a step toward the ultimate solution of the problem of the nonreservation schools in the future. If some such plan were to be carried out, it is desirable that a printing office should be equipped at Cushman and also the School of Letters should be made a tenth-grade school. In any event a principal of the schools should be appointed, as there is more work to be done in a school of this size than can be accomplished efficiently without a regularly-appointed principal. The English work in the shops is an important part of the training and a well-qualified principal could correlate this so as to make it a very potent influence in training the Indians in the use of the English language.

In view of the large number of Indians from the coast, including Alaska, the emphasis being placed on gasoline and similar small marine engines is much to be commended, and every encouragement

should be given to increasing the training in these branches.

It is a very great mistake to suppose that all Indians can be trained practically solely in agriculture or in branches which are connected therewith, and, further, that pretty much the same line of agricultural pursuits should be adopted without regard to the districts from which the scholars come or the vocations which they must follow after their schooling is completed. This course is not pursued with white children, and there would appear to be no good reason which makes it applicable only to Indians. Supt. Hammond is

alive to this and his ideas should be encouraged.

From some things we heard at the time of our visit it would appear as though some more definite steps should be taken by which Indian children coining from Alaska are looked after and protected upon their arrival in Seattle. Doubtless when they are going to one of the schools and information is received in advance of the time of their arrival they are properly met at the boat landing, but if there could be some better plan devised than that now in use by which the arriving steamers always would be met by some one who is interested in the Indians, it would be of great advantage to them. Possibly, through the very admirable Young Women's Christian Association in Seattle some method of regular cooperation could be devised which would meet this situation.

THE RESERVATION.

There are several small reservations under the superintendent of the Cushman School. Formerly there was another, the Puyallap, which has now entirely disappeared. We drove through some portions of it now developed into the richest of farms, and had pointed out to us the homes of a number of the Indians. These all seemed to be prosperous and several of them are equal, if not superior, to any homes in the neighborhood. Everywhere there were signs of prosperity, not to say wealth, and the tangible arguments presented were most inspiring and cause feelings of the highest optimism as to what may be accomplished where Indians are thrown on their own resources and, through reasonable competition, have their best powers developed. These men and women were asking no odds of anyone, and their degree of success was such as to be marked in any community.

The St. George's Catholic Mission School, located about a dozen miles from Tacoma, is a boarding school and has a considerable number of small children, both boys and girls. We were much impressed with the cleanliness and orderliness of the whole place, and the degree of interest and devotion manifested by all those who are in charge of the school. Both the dormintories and classrooms were bright and cheerful and satisfactorily furnished.

MUCKLESHOOT RESERVATION.

The small Muckleshoot Reservation lies some 30 miles east of Tacoma and there are upon it about 150 Indians. They were allotted in 1903 and, as there was not enough land to go round, only heads of families received 40 acres each. The land in the main is good and some of it is heavily timbered. The Indians are mostly farmers. A number of them are working on their allotments, though there is still an enormous amount of work to be done in clearing before really successful agriculture can be carried on. The expense of clearing land in the Puget Sound country is not appreciated by those of us who have had experience only on the Atlantic seaboard or in the prairie country. To remove stumps alone is a stupendous undertaking and often costs several hundred dollars an acre.

It is not surprising, therefore, that the Indians frequently become discouraged, as they have little or no capital resources and the clearing process is one which takes much time, during which period there can be little or no return. We were in a number of the homes of these Indians and found the people in the main cheerful and living fairly comfortably, though there was a good deal of room for improvement in housekeeping methods. The importance of the work of the field matrons was once more emphasized and the desirability of having it carried further and enlarged, so as to take more of the form which has come to be generally recognized as "community center work,"

NISQUALLY RESERVATION.

was very evident.

The Nisqually Reservation was in a very peculiar situation. It contains slightly under 3,300 acres of land and is immediately adjacent to Camp Lewis. Under recent legislation the county in which this reservation lies was authorized to present to the War Department of the United States for camp purposes sufficient ground to meet the requirements of that department for one of the largest camps in the country. The condemnation proceedings against Indian land were pending at the time of our visit and were reached in court about three days after we left. An appraisement of the land by representatives of the War Department gave its value as \$57,920.90, the appraisement by the county was \$70,762.80, while that of the representatives of the Indian Office was \$93,760.

There is a great difference in the value of different parts of the land, growing out of the fact that some of it is gravelly prairie, affording only grazing facilities which are even then poor, while the bottoms along the river, though requiring clearing, are fertile and agriculturally of a great deal of importance. A compromise figure between those of the Indian Office and those of the

Army, which would be \$75,480, seemed to be a fair price for the ground in view of all the circumstances of the case, and an investigation of the awards made in other cases indicated that this latter figure was more than could be secured as the result of legal controversy. The small number of Indians comprising the band could. without difficulty, be placed in the immediate vicinity on other land which would not come within the limits of the ground required by the War Department. We strongly urged the acceptance of those figures.

We were able to attend what was probably the last service conducted in the little Catholic chapel, and talked to most of the Indians, about 30 in number, who attended there. In addition, we saw some of the very few non-Catholic families in their homes. General conditions seemed to be encouraging. They were living in comfortable houses, fairly well kept, and their attitude toward the United States and the administration of affairs for the Indians was encouraging.

RECOMMENDATIONS.

In conclusion I offer the following recommendations and sugrections:

(1) That at Cushman a printing office be provided; the School of Letters made a tenth-grade school and, as soon as is practicable, a

well-qualified principal be regularly appointed.

(2) That so long as both the Cushman and Salem Schools are maintained mechanical training, particularly in the line of marine engineering, be emphasized at Cushman and agriculture be featured at Salem.

(3) That definite steps be taken by which Indian children may better be looked after and protected upon their arrival in Seattle.

(4) That at Muckleshoot Reservation the field matron work be enlarged and carried further so as to take more of the form which has come to be generally recognized as "community center work."

Respectfully submitted.

GEORGE VAUX, Jr.

The Board of Indian Commissioners.

APPENDIX Q.

REPORT ON THE TULALIP AGENCY, WASH., BY GEORGE VAUX, JR.

BRYN MAWR, PA., June 5, 1918.

Gentlemen: In company with Commissioner Ketcham I visited the Tulalip Agency, Wash., April 16 to 19, 1918, inclusive. Arriving at Everett on the afternoon of the 16th, we were met by Supt. Charles M. Buchanan with the agency launch, and, during the time of our visit, he devoted himself assiduously to us, not only making our stay comfortable, but also having us see as much as possible of the conditions as they existed.

In addition to the boarding school at Tulalip and the reservation, there are several outlying reservations, the only additional one of which we visited being that at Lummi, about a dozen miles north

of Bellingham.

THE TULALIP SCHOOL,

For the Tulalip School and its management we have nothing but praise. Certainly, Dr. Buchanan is entitled to the highest commendation for the indefatigable devotion which he shows to the Indians and their interests. He has brought to his work a trained scientific mind, and the whole school shows the results of the application of intelligence and force. The general conditions at Tulalip have been reported on frequently, so that it is not necessary for us to

go into more than one or two matters.

As on other reservations, the question of the disposition of petty offenders, both adult and juvenile, is an important one. There was formerly a guardhouse at Tulalip, but it was torn down some years ago and has not been replaced. As respects boys, a substitute for this has been found in a room in the basement of the boys' dormitory building, but the quarters are not such as are desirable for this purpose, and the moral effect on those who may be incarcerated there is not nearly so great as would be the case were there some adequate provision made. Under the laws of Washington possibly juvenile delinquents could be sent to some State institution, but up to the present time the State authorities have declined to take such offenders, and it is clearly the fact that something should be done for them. We would suggest that some study be given to the whole question of Indian juvenile delinquency, for it is an important one in a very large part and affects nearly all of the reservations in the country. As a result some suitable plans might be devised adequately to meet an absolute need.

SUPERINTENDENTS AS MAGISTRATES.

Some provision for adult delinquents is also a vital necessity. In some of the reservations it may not be necessary for the superintendent to have such broad powers as those which ought to be exercised by the superintendent at Tulalip. In an isolated locality, however, such as are many of the northwestern reservations, the superintendent should be clothed with ample powers of a committing magistrate, with authority to sentence petty offenders to brief terms of incarceration. Simple jails or guardhouses in which such sentences could be served should be provided also. At the present time in the vicinity of Tulalip the superintendent is openly defied by malefactors who know and boast that he has no place in which he can punish them, and, accordingly, his efforts are without the strong backing of legal authority which they ought to have.

The lumbering operations on the reservation were progressing rapidly and satisfactorily, a small logging road having been run in from a specially constructed wharf at the shore to haul the logs down from the woods. When the timber is cut, however, the further use of the ground is uncertain for the reason that the difficulties and expense of clearing it, in order to fit it for agriculture, are so great. Several hundred dollars an acre are often required, and the Indians usually have neither the initiative nor the capital to enable them to carry on so important an operation. Probably the most effective way is by making leases for a considerable term, conditioned upon the

tenant clearing up the land. The term of such leases should not be less than 8 or 10 years. At the present time the maximum is 5 years, which is hardly enough, though increased from what it was

formerly.

We saw and talked to a considerable number of the Tulalip Indians and found them to be contented, loyal, and intelligent. There have been some difficulties among them caused by the "Shaker" cult, which will be referred to later in this report, but most of the Indians to whom we talked were very much opposed to what was being done by those agitators, and it is to be hoped, with the diplomatic advice of the superintendent, difficulties of this sort will be reduced to a minimum at Tulalip.

LUMMI RESERVATION.

The Lummi Reservation is situated also on the Sound, possibly 80 miles north of Tulalip. We were driven there in the agency motor by Supt. Buchanan. A considerable number of the Indians had been notified to meet us at the day school. The object of the meeting was to discuss certain petitions which have been forwarded to the Indian Bureau by some agitators among these Indians, and also by some of the white people of Bellingham, a city about a dozen miles off, in which they set forth their desire to have permission granted to the Indians to revive certain of their ancient

pagan dances.

A few words of explanation may be desirable in the interest of clarity. For a great many years back practically all of these Indians have been members of the Roman Catholic Church, which has maintained missions among them for upward of 50 years. Within a comparatively few years, however, an extremely emotional phase of alleged religious performance has gotten considerable vogue among them (as it has among the Indians in many parts of the far West), known as the "Shakers." This cult is in nowise connected with and must not be confused with the well-known communities of that name in the East. Gradually in the regions where this line of performance has become popular small chapels or churches have been built, and the Indians have left the Christianizing influence of the missionaries of the various denominations and attend only their own services in these chapels.

We did not attend any of their performances and we can not state at first hand from what we saw ourselves as to exactly what is done, but there seems to be no secret with regard to the fact that an extreme trembling, jerking, or shaking (hence the name) is an important part of their exercises. These motions are often kept up for many hours without intermission, and it can readily be seen what would be the highly excited condition of the participants after such actions had been in progress for 15 or 20 hours. This cult seems to be one that has arisen much in the same way as the peyote "religion" farther east and has no more to recommend it. It is one of the matters which should be handled by the bureau in some way, but, like the peyote habit, what is done should be after careful study as to the best methods to be adopted to get rid of the source of the difficulty, and with discretion, but at the same time with absolute firmness.

THE SQUEHEALOUS DANCE.

Recently there has grown up also a reversion to some of the old pagan rites of these Indians, including the squehealous dance. It is for the official approval of the latter, as a proper means of diversion of the Indians, that the petitions above referred to are asking. large part of the several hours conference which we had with the Lummi people was devoted to a description on their part of these dances and an endeavor to defend them from the adverse criticisms which have been made by Supt. Buchanan, the missionaries, and other thoughtful people. It was urged with some degree of adroitness that the dances in themselves are not objectionable, in fact far less so than many of the amusements in which the whites indulge, including dancing parties, moving-picture shows, etc., and while this may be true as respects one phase of the dances, it was brought out absolutely and without any attempt at denial that their performance is a reversion to pagan rites, leading Indians specifically referring to them as a "religion" and as not opposed to other religions, etc.

Further than this they claim that a particular song which they sing in connection with these dances has the power to cure disease, and three concrete instances were cited to us by name. Two of these persons were present and detailed their symptoms (one of them had had an operation for appendicitis) and how regular doctors utterly failed to do anything for them, but that when they indulged in these pagan rites they were speedily entirely cured. In one case the sufferer had been ill for over two years and her husband had spent upward of \$1,400 in medical attendance for her. Almost all of the eighty-odd Indians who took part in the conference fully believed in the view that these performances can cure

disease.

After a very careful consideration of the testimony which was deduced, we can not see anything but evil in permitting these dances, and we most strongly urge that no backward step be taken on this connection, but that their prohibition be made even more positive.

TREATY DAY CELEBRATION.

The Indians tried to excuse their performance upon the ground that the "Treaty Days" celebration, which had been introduced by Dr. Buchanan, was really a reversion to old Indian rites, and the totem poles, which have been carved by one of the school employees and erected on the school grounds at Tulalip, are also a reversion to their original methods of worship. Probably it will be hard for an Indian to distinguish between a scientific effort to preserve ethnological data and an effort to reintroduce paganism. There is, however, an enormous amount of difference. Dr. Buchanan is fully alive to the factors of the situation and is taking the necessary steps to try and prevent complications arising from charges such as these Indians made.

It is true there are but few amusements, especially for the older people in the long winter evenings, but it would seem as though some other method than that desired by them could readily be adopted. So far as the good people of Bellingham are concerned, some of them with whom we talked expressed extreme surprise at the religious emphasis placed on these proceedings by the Indians, and we very much doubt whether they have gone into the matter in detail and fully understand all that is involved, or they would not be in favor of it to the extent that now appears. It is always difficult to tell just when a selfish desire to exploit things of this sort is really back of such an application.

Another very serious situation exists at Lummi. There are good reasons to believe that considerable number of these Indians are covertly disloyal to the United States and have been victims of pro-German propaganda. We endeavored to bring to bear such influence as we could upon them to point out the impropriety of such conduct on their part and the probability of its getting them into serious

difficulty.

Dr. Buchanan is aware of the gravity of this situation and should have every support possible in breaking up a hotbed of sedition. The same persons among the Indians who were active in trying to reintroduce the pagan dances are those who are apparently the leaders in sowing disloyalty. There would appear to be some connection between the two, but just what we were not able to discover.

RECOMMENDATIONS.

I beg leave to offer the following recommendations and suggestions:

(1) That the Board of Indian Commissioners make a study of the

whole question of Indian delinquency, juvenile and adult, for the purpose of laying before the Secretary of the Interior suitable plans devised to meet what is becoming a serious situation.

(2) That on isolated Indian jurisdictions superintendents be clothed with the powers of a committing magistrate, with authority to sentence petty offenders to brief terms of incarceration and that simple jails or guardhouses be provided for such jurisdictions.

(3) That in the heavily timbered country of the Northwest, cutover lands be leased for not less than 8 or 10 years, with provisions in the lease requiring tenants to clear the land so that it will be suitable for agricultural purposes.

(4) That the Board of Indian Commissioners approve the action of the Indian Bureau in prohibiting pagan and other dances which have a degrading influence upon Indians and that the prohibition of

such conditions be made even more positive.

(5) That the superintendent of the Tulalip Agency be earnestly supported in his efforts to counteract pro-German influences directed against the loyalty of the Indians on the Lummi Reservation.

Respectfully submitted.

George Vaux, Jr.

The Board of Indian Commissioners.

APPENDIX R.

REPORT ON THE MORAL CONDITIONS ON RESERVATIONS, BY WILLIAM H. KETCHAM.

OKLAHOMA CITY, OKLA., June 3, 1918.

Sin: I have just finished a series of inspections of Indian schools and reservations in Oklahoma, Idaho, Washington, Oregon, California, Nevada, and Arizona, which began in March last, and submit the

following as my report:

The jurisditcion visited and the dates of the visitations are as follows: The Seminole Nation, Okla., March 13-16; the Cayuse, Umatilla, and Wallawalla Indians, Umatilla, Oreg., March 23-25; the Nez Perce Indians, Fort Lapwai, Idaho, March 26-28; the Coeur d'Alene and Kootenai Indians, Coeur d'Alene, Iadho, March 29-April 2; the Warm Springs, Des Chutes, Paiute, and Wasco Indians, Warm Springs, Oreg., April 4; special meeting of the board, Portland, Oreg. (which included a visit to the Salem Indian School, Chemawa), April 8-14; the Cow Creek, Rogue River, Kalapuy, Shasta, and other Indians, Grande Ronde, Oreg., April 20-21; the Coquilla, Kwatami, Umpqua, and other Indians, Siletz, Oreg., April 20-21; the Klamath, Modoc, Walpape, and other Indians, Klamath, Oreg., April 28-30; the Paiute and Washoes in and around the Carson Indian School, Yerington and Walker River Reservation, Nev., May 6-7; the Yuma and Cocopah Indians, Yuma, Ariz., and California, May 18-21; the Pima, Maricopa, and Apache Indians, Salt River, Ariz., May 23; the Phoenix Indian School, Phoenix, Ariz., May 26; and the Apache Indians, San Carlos, Ariz., May 28.

Some matters which required immediate attention I took up with the Indian Office by telegrams and letters, and I will not include them in this report. After the Portland meeting I accompanied Chairman Vaux on a joint inspection of the Cushman School, Tacoma, and schools under the Tulalip and Lummi jurisdiction, Wash-

ington.

INCREASE IN IMMORALITY.

In the beginning of this review of my field work I desire to center the attention of the board upon the appalling increase in immorality among the Indians on some of the reservations I visited. In common with other members of this board I have been painfully impressed for some time with the growing tendency toward moral laxity of a large number of our Indians who, but a short generation ago, were sturdy advocates of pure manhood and chaste womanhood. The contrast between the moral conditions of those years and to-day is so strong that there is good ground for the statement that unless the evil conditions are righted immediately by law or regulation or both, most of the good work done by the missionaries and the Indian Office for the advancement of the Indians will be lost and the white people of the United States, the guardians of the Indians, will be responsible for another great crime against them. For it is nothing less than criminal for us, the white men and women of this country, to permit the residue of this great race, which was reduced to a mere remnant by, or with the passive acquiescence of, our people to degenerate into a state of immorality and irreligion.

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It is almost incredible that on one side of a barb wire fence, the boundary line of an Indian reservation, white men and women who are living together in loose sexual relations can be and are punished under the laws of the State while on the other, the Indian side of the fence, the superintendent of the reservation, the authorized agent of the United States Government, sees the vilest sexual practices going on under his very eyes and can or will do nothing to stop them. Yet that is exactly the situation in some parts of this land.

It is not necessary to my purpose, which is to start a "drive" against this growing evil, to name any particular reservation where immorality is prevalent. Congress, the Indian Office, the Board of Indian Commissioners, the Lake Mohonk Conference and the courts of the land are cognizant of the facts which I present herewith. Somewhere along the line of Federal activities in the administration of Indian affairs, beginning with Congress and ending with the reservation superintendent, there is a defect which seriously weakens, if it does not completely nullify authority to punish offenders, white and Indians, against the moral and marriage laws on reservations. Just where that weakness or omission or neglect is I do not know at this time.

OFFICIALS NOT OF ONE MIND.

Inquiries made by me on my trip and through the board's office at my suggestion have developed the following: Superintendents in some States are of the opinion that they have no power to procure the arrest and punishment of violators of the moral laws whether they be citizen or noncitizen Indians; other superintendents, in the same 'States, hold there is no conflict between Federal and State laws which operates to prevent them from securing punishment for moral lawbreakers; some States and counties do not attempt to correct immoral evils by the prosecution of offenders; there seems to be no Federal statutes which cover moral transgression on reservations; one superintendent wrote that it was not deemed best to call in the aid of State courts because "if we permit the State courts to have jurisdiction the Indians would, in a short time, lose everything they possess."

Taking into consideration the several court decisions bearing on the enforceability of State laws on Indian reservations there probably is some justification for the varying views held by superintendents and other Indian officials on this important question. I have in mind two reservations in the same State, both of which I recently visited, on one of which the superintendent has enforced, through punishment when necessary, a decent observance of the marriage and divorce laws of the State, while on the other the superintendent told me he had no authority to enforce such laws.

The later superintendent said he could not secure correction and punishment of citizen Indians who violate the marriage and divorce laws of the State, and I feel sure he does not support his Indian court in prosecuting and punishing promiscuous cohabitation on the part of his noncitizen Indians. Now, this difference between two jurisdictions in the same State raises the question, "Does the first

superintendent exceed his authority or is the second superintendent negligent or indifferent?" Both of them stand well as superintendents; both seem to be good, well-meaning, conscientious men.

Viewing the situation as a whole, I am forced to the conclusion that Congress, the Indian Office, and too many, I fear, of the superintendents must jointly bear the responsibility for the promiscuous immorality which is degrading the Indians on many reservations. Congress enacted an antiliquor law so drastic in its provisions that it enabled the Indian Office to carry on its most praiseworthy campaign against illicit traffic in liquor so successfully that many jurisdictions are almost 100 per cent dry.

NEED OF FEDERAL LAWS.

I am unable to understand why Congress, then, can not pass laws which will enable the Indian Office, through its superintendents, to quickly put a stop to the immoral practices I have referred to. If Congress can put on the statute books a law which sends to the penitentiary for a number of years, through the Federal courts, a man who is convicted of the illicit introduction of liquor into a reservation, I do not understand why Congress can not enact laws which will severely punish a man or woman, or both, white or Indian, married or unmarried, who indulges in illicit sexual practices on a reservation.

Inasmuch as there seems to be considerable confusion in the minds of the superintendents and others in the Indian Service as to laws, authorities, rights, and regulations in respect to the nonobservance of marriage, divorce, and moral laws on Indian reservations, I strongly recommend that the Board of Indian Commissioners at once begin a comprehensive survey of this whole problem with the purpose of laying before the Secretary of the Interior information and conclusions on which he may, if he so desires, base recommendations to Congress to the end that our Indians be redeemed from the low state toward which they surely are tending.

And this survey should include close inquiries into the relations which white men who live near Indian reservations and communities sustain toward Indian women. There is abundant evidence to prove that many white men regard Indian women, particularly young girls, as their rightful prey. I sometimes think that missionaries to the Indians should move out of the reservations into the neighboring white communities, for it is there where most of the evils caused by whisky and immorality have their source.

My personal opinion is that nothing short of Federal legislation which has claws to it will be effective to overcome this growing evil of immorality and disregard of marriage and divorce laws on reservations. The earnest efforts of devoted missionaries and conscientious superintendents to combat these evils seem to be futile. white communities near Indian centers, instead of being what they should be, sources of good influence and encouragement for the Indians, too often are the contrary. The Government, which protects its Indians from the bootlegger and illicit whisky peddler, should protect the wives and daughters of its Indians from the beastly passions of white men.

THE SEMINOLE NATION.

As I do not consider it necessary, I shall not attempt in this report to go into much detail in setting forth my observations and conclusions. I visited the Seminole Nation, in Oklahoma, to learn what had been been accomplished by the special inspector of the Secretary's office who had been sent there at my request to inquire into conditions. I interviewed a number of prominent Indians and went with Field Clerk Archert to address a "good crops" meeting at the Methodist Church building in Sylvan. The work of inspecting and improving Seminole conditions should be uninterruptedly pushed on. A trachoma specialist should be detailed to this tribe for trachoma is becoming more prevalent. A hospital is needed and if the courts hold that the Seminole school plant at Emahaka, which now is a subject of litigation, belongs to the Seminoles the building, with some improvements and modifications, would make a good hospital.

CONDITIONS AT UMATILLA.

On the Umatilla Reservation I visited, with the superintendent, St. Andrews (Catholic) Mission, the Presbyterian Mission, the Government boarding school and many Indians in their homes and held a council with the Indians. The boarding school at this place is to be abandoned and the superintendent wants the plant turned into a hospital. I strongly favor this. Some of the Indians, however, object and they should be given a full hearing in the matter, so that their reasons in opposition may be heard. With certain concessions

they possibly may be won over to the hospital project.

It seems that some of them object to having sick people brought in on the reservation and they also claim that the land in question not only is most valuable for wheat but the acreage is not required by a hospital. There is no finer wheat country in the United States than the Umatilla reserve. Some of the Indians complain that the superintendent, in making leases of wheat land, is favoring large wheat growers and thereby discouraging the Indians as small wheat growers. The superintendent, in answer to this complaint, urges the necessities of the war and the need for as great a yield of wheat on as large an acreage as possible.

The Indians, financially, are well off but morally they are rapidly deteriorating. One reason for this is the annual "round up" at Pendleton where the fair attracts an indiscriminate crowd from all parts of the country and where there is whisky and gambling and every influence to pull down the Indian. The great evil on this reserve is the disregard of marriage by the Indians, which is becoming prevalent. The superintendent, who seems to be a good, efficient man, is one of those who feels that he can not secure the conviction and punishment of citizen Indians who violate the marriage laws.

Apparently he does not look upon his Indian court as an effective agent for correcting the misdemeanors of his noncitizen Indians, for he has not rebuilt the reservation jail, which was burned down several years since. I would strongly suggest that a jail be built for this reserve and that the superintendent make every effort to instill more energy into his Indian court. As for the citizen Indians, I am

strongly of the opinion, as I have stated before, that some Federal legislation should be obtained that will enable the Commissioner of Indian Affairs to deal summarily with offenders against decency and immorality just as he does with whisky cases.

THE NEZ PERCE INDIANS.

The Nez Perce Indians at Fort Lapwai, Idaho, in some respects have made very remarkable progress. They are all citizens, however, and the same marriage evils and defiance of all decency and morality exist here as at Umatilla, but in a more accentuated degree. Nothing but a Federal statute can cure the evil here, and it should be enacted at the earliest possible moment. At a tribal council which I was invited to attend a large number of Indians were present. This meeting was called to protest against the sale of some of their timber without first consulting them, although it appears the Indian Office had at various times brought the matter to the attention of some of them. They criticized the department for not conferring with them before advertising for bids for the purchase of the timber.

They declared they never know what becomes of their money, and that no statement or account of their financial affairs ever is rendered to them, and as they are citizens they are entitled to a voice in the handling of their affairs and to full and specific accounts of the condition of their finances.

In the event their statement is correct I think they are right, and I strongly suggest that every year, on every reservation, there be posted in some conspicuous part of the superintendent's office an authorized statement, which will give the Indians the knowledge they desire and are entitled to of how their tribal accounts stand on the books of the Indian Office.

The hospital on this reserve is doing good work, although some new buildings and various improvements are needed. I was particularly pleased with the open-air school. The teachers understand

their business.

COEUR D'ALENE AND KOOTENAI.

The Indians on the Coeur d'Alene Reservation in Idaho had made the most remarkable progress in industry and civilization and had reached a high state of morals without any particular attention from the Government. The springing up of towns around the reservation, however, with the rough element attracted during the boom days and the "fire water" which flowed freely from the new settlements, wrought havoc among the Coeur d'Alene. Drunkenness and violence are rampant despite the superintendent's efforts to conserve order, and marriage, once held sacred by the Coeur d'Alene, is, because of lax discipline, becoming a negligible quantity in the morals of the reservation.

Murder, adultery, and drunkenness, if not checked, will destroy this people. Since several murders have taken place, and, as I was told, in several instances no steps have been taken to find the culprits and bring them to justice, I urge that the Commissioner of Indian Affairs send his best secret-service men to run down the criminals

and have them prosecuted. It is possible that when prohibition becomes effective in the neighboring State of Montana conditions among the Coeur d'Alenes as regards drunkenness may improve.

The agency is located near the geographical center of the reservation but remote from the bulk of the population. It is incredible that such a false step as placing the agency where it is should have been made by any right-thinking official. The reservation physician retains his residence at De Smet, where all the Indians are assembled at least four times a year, where each family has a residence, and where usually the sick are brought not only for medical aid but for spiritual attention. De Smet, the physician tells me, is near to

80 per cent of the population.

Yet every effort has been made to induce the physician to move his residence to the agency, away from the bulk of his people. At De Smet also there is a hospital conducted by the Sisters of Charity of Providence. The physician is not supplied with adequate means for traveling, neither an automobile for summer nor a sledge for winter, and the house, if such it can be called, in which he and his family are compelled to live is not fit for cattle, much less for human beings. I strongly recommend that the agency physician not only be properly housed at De Smet, where he should live, but that he be provided with adequate transportation facilities.

It will be seen this reservation furnishes another reason for a Federal statute covering Indian marriages. As the Coeur d'Alene are not citizens, the matter might be handled by the Indian court, if one such as existed in former years were maintained. The chief asked me to have some good policemen appointed to assist him in keeping order. I was advised by the missionaries that white policemen would do better on this reservation than Indians, as the Coeur

d'Alene policemen are often afraid to make arrests.

The Kootenai settlement near Bonners Ferry and day school seem to be ideal. The Kootenai are good Indians, but have not reached the state of progress where they speak English. The day-school teacher, Mr. Fisher, and his wife and the contract physician, Dr. Frye, who lives in Bonners Ferry, are doing excellent work. They want an appropriation to give the village a good water supply and to put up comfortable cottages. This appropriation seems to be their sole need.

WARM SPRINGS RESERVATION.

Because Supt. Reynolds, of Warm Springs Reservation, in Oregon, lay critically ill at the time of my visit, I only stayed at Warm Springs one day. From what I saw I judged that Supt. Reynolds has not been afraid to shoulder the responsibility of compelling the Indians under his charge to observe moral decency. His Indian court amounts to something, and good order seems to prevail on the reservation.

The land of this jurisdiction is very poor and is adapted chiefly to stock raising. The little valleys could be irrigated, and this should be done. Timber is the one asset of the Indians. Enough of it should be disposed of to stock the reservation, or a reimbursable appropriation, with the timber as security, should be provided for this purpose. The school impressed me as being very inferior.

Since the Roseburg (Oreg.) Agency has been discontinued part of the scattered Indians—those around The Dalles and certain other places—formerly under the supervision of the Roseburg Agency, have been placed in charge of the Warm Springs superintendent. I was told this extra responsibility can not be properly handled by the superintendent because of lack of time and clerical assistance and the inaccessible location of Warm Springs.

GRAND RONDE AND SILETZ.

The Grand Ronde School is under the jurisdiction of the superintendent of the Siletz Reservation, Oreg. The Government farmer, who is a member of the tribe, is the sole representative of the Indian Office at this place. Practically all that he has to do is to give out aid to several old, dependent Indians. The best of order prevails here,

so that no supervision is needed.

If the rank and file of the population are considered, Grand Ronde is the most thoroughly civilized Indian jurisdiction I ever have visited. Its one need is proper medical attention, and I would suggest that the Indian Office make an arrangement for a contract physician for this place. The distance of the Indians from a qualified physician renders it practically impossible for them to afford the services of a doctor in cases of emergency. As a consequence they are at the mercy of a Chinese, who practices his arts according to the manner in vogue in the Celestial Kingdom. Siletz has a resident physician, and conditions there are quite similar to those at Grand Ronde.

THE KLAMATH INDIANS.

I was on the Klamath Reservation, Oreg., for the best part of three days, and was shown over a portion of this finely timbered country by the forester, and saw two of the day schools and one of the saw-mills in company with the superintendent. The agency boarding school which I inspected is badly run down so far as the buildings are concerned. This school either should be greatly improved or abandoned.

The Klamath Indians are forceful and intelligent and many show competency in a marked degree. I found them much concerned because of reports that the \$400,000, carried in the Indian appropriation bill to purchase cattle for this reservation, would not be used for that purpose at once. The Indians firmly believe that the cattle lessees of the reservation had used their influence to postpone the purchase of cattle so that they, the lessees, could continue the use of the cattle range for a longer period. I attended a council called for the purpose of considering the disposition of this \$400,000, the sale of the timber and the accounting of the timber money by the Indian Office. I forwarded to our secretary a stenographic report of the proceedings of this council.

I telegraphed the board's secretary asking him to ascertain if the \$400,000 in question was to be used at once for the purchase of cattle for the Klamath Indians and he wired me that the Indian Office, anticipating the passage of the bill, already was preparing the advertisements and other necessary papers to purchase cattle as soon as the money became available. These Indians should annually be

supplied with a complete financial statement by the Indian Office so that they may know just what was realized from the sale of their timber and just how the money has been or is to be expended. They suspect graft, and so would white men under like conditions. The timber belongs to the tribe and the tribe has a perfect right to know what is being done with its property. Besides, such a statement would do much toward heading off criticisms and complaints and would make the very unpleasant lot of the superintendent more tolerable.

PAIUTES OF NEVADA.

The Paiutes, the so-called landless Indians of Nevada, who were the subjects of a comprehensive survey made by Commissioner Smiley and Secretary McDowell last year, and whom I saw during my trip through western Nevada, know nothing whatever about morals and the rough contingent of whites in that part of the State would hardly permit them to observe any morals even should they receive primary instructions in them. Missionary work among these poor Paiutes has been a dismal failure. Good strong law for and effective missionary work among such white people as use these Indians for their personal gain and low pleasure, followed up by earnest missionary work among the Indians are about all that I can suggest for the Paiutes of Nevada. I visited a little settlement of Paiutes on the outskirts of Yerington for whom the Government has purchased a little plat of land and built homes. The field matron here, under great difficulties, is doing good work.

I visited the Carson School and found some improvements. The farming feature is being brought to a marked success and the school is the center of good influence for this section. The improvements recommended by Commissioner Smiley in his report are needed sorely. I was pleased with the evidence of progress I found on the Walker River Reservation. The superintendent is efficient and the

little day school a delight.

YUMA AND COCOPAH INDIANS.

On the Yuma Reservation, in California and Arizona, I found a thoroughly competent, earnest agent, the Indians industrious and busy, making homes and profiting by the irrigation supplied them by the Government. I went over the reservation, visited the boarding school at Fort Yuma and a day school, built by the Indians themselves in Arizona off the reservation near the Mexican border.

I also visited the Cocopahs, on the Arizona side. One band of these Indians has taken the land which the superintendent offered them and he has opened a day school for them. Another band, which still refuses the offer for land, I made a desperate effort to get acquainted with in the hope that later I might help persuade them to accept the land and settle on it.

SALT RIVER AND SAN CARLOS.

My visit to the Salt River Reservation and the McDowell subagency was in the nature of a "follow up." This reservation was the subject of a report by Commissioner Eliot and Secretary McDowell last year. The McDowell Apaches still refuse to move down on the irrigated lands at Salt River. It is said there is an outside influence which tends to keep the McDowell Apaches up on the Verde River.

On my way home I stopped off at San Carlos Reservation, another "follow-up" visit, for Commissioner Eliot and Secretary McDowell made a report on this jurisdiction last year. Mr. Terrell, the new superintendent, is a good stockman who has a heart for the Indians and he urged especially the carrying out of Commissioner Eliot's recommendations regarding missionaries and a hospital. I found that the pumping facilities for irrigation, the need of which was emphasized by Commissioner Eliot, had been provided by the irrigation division of the Indian Office.

RECOMMENDATIONS.

In conclusion I desire to summarize some of my recommendations.

(1) That a comprehensive survey of moral conditions on Indian reservations be made by the board to provide the Secretary of the Interior with information on which he may, if he desires, base recommendations to Congress for legislation which will give superintendents the authority to prosecute and procure punishment for violations of marriage, divorce, and moral laws on reservations.

(2) That the Commissioner of Indian Affairs require superintendents annually to furnish Indians under their charge with a statement of the conditions or tribal lands and monies, as shown by the books in

the Indian Office.

(3) That the boarding school plant at Umatilla be made into a

hospital.

(4) That the Commissioner of Indian Affairs send a secret-service man to the Coeur d'Alene Reservation to obtain information which will lead to the arrest and conviction of unpunished murderers.

(5) That the agency physician on the Coeur d'Alene Reservation be provided with a good home and adequate means of transportation.

(6) That a contract physician be provided for Grand Ronde. Respectfully submitted.

WILLIAM H. KETCHAM.

Hon. GEORGE VAUX, Jr., Chairman.

APPENDIX S.

REPORT ON THE ST. REGIS INDIANS OF NEW YORK, BY WARREN K. MOOREHEAD.

Andover, Mass., October 13, 1917.

DEAR SIR: I have the honor to report upon the condition of the St.

Regis Indians of northern Franklin County, N. Y.

These Indians occupy a reservation 6 miles square lying along the St. Lawrence River, northern New York. In the tract is included the town of Hogansburg and the small settlement of St. Francis. Through the town of St. Francis passes the boundary line between the United States and Canada, and Indians are continually passing back and forth from one side of the line to the other.

These Indians number at the present time between 1,400 and 1,500. I am informed by the chiefs that the exact population can not be determined for the reason that many of the Indians claim residence on both sides of the border.

On my arrival at Hogansburg I went to a large store where most of the Indians trade, and there met 10 or 15 men and women. I established headquarters at Murphy's Hotel and was visited by numbers of Indians during my stay on the reservation.

EDUCATIONAL MATTERS.

There is little to say in regard to education. The Catholic sisters maintain a flourishing institution for young girls. There is a large public school conducted by Mr. Ellis, who represents the department of education, State of New York. So far as the education of the children is concerned both Indians and whites agree that the facilities are ample. There is no discrimination against Indian children.

I talked with white persons in business or in professions, but did not call upon the teacher, Mr. Ellis, against whom the Indians made some complaints. As he was in close touch with Dr. Hill, who is head of the educational department under which these Indians come,

I preferred to get the Indians' point of view.

I visited the residence of Louis Solomon, who is an hereditary chief; that is, according to old Iroquois custom he is chief, for the reason that his grandfather and father were both chiefs. The progressive Indians believe in election, and, therefore, Tom Curley Head, Thomas Ransom, Mr. White, and one or two others were duly elected last spring to represent the Indians. Mr. Solomon called in one or two old Indians, who appeared to be full bloods, and we spent two or three hours discussing their complaints.

LAND LEASE,

Mr. Solomon's chief complaint is that the white citizens of Hogansburg now control 2,000 acres of land. He claims this land was secured from the Indians on a long lease; that the lease has expired and the Indians wish to regain their property. He says the Indians believe there is no written authority in existence to-day for the occupation of this land by the white people. Solomon and his associates claim that a man named Hogan (for whom the town is named) got the land from the Indians years ago.

Mr. Solomon protests because there is a head tax of \$8 on Indians who come from the Provinces of Quebec or Ontario into New York State to work. He said these Indians often come to visit relatives and not to work, yet they are compelled to pay \$8 and also pay a fee of about 60 cents for passes to go back and forth, and that it is necessary for an Indian to secure a pass and pay this fee if he re-

mains but a day on that side of the border opposite his home.

DUTY ON SWEET GRASS.

He and his associates object to the duty on baskets and sweet grass. The women make large numbers of baskets, headpieces, and other articles out of Canadian sweet grass. If they were permitted to import \$20 worth per capita free of charge it would afford them

great relief. The Indians have very little ready money and the imposition of this duty on the grass and baskets compels them to mortgage future profits with the storekeepers. Thus they have to pay a high rate of interest as well as duty. Previously they were permitted to pass back and forth across the line without hindrance. He claims that it would work no injury to the white people were the Indians permitted to bring in their small quantities of baskets and grass free of charge, that the industry is not extensive, but that it means a great deal to the Indians.

MORAL CONDITIONS.

I talked with a prominent judge in Malone concerning moral conditions on the reservation. He is in a position to know and states that the Indians, as a rule, are as moral as the class of white people surrounding them. Merchants in towns near the reservation say there used to be considerable drunkenness and fighting. The past year there has been a large camp composed of laborers working on the State highway some 10 miles from the reservation. The number of Italians, negroes, and others employed is less than the Indian population. It is interesting to note that there have been more murders, assaults, and other crimes in this camp of workmen than has occurred on the reservation during the past three or four years.

The few remaining full bloods and Indians who are inclined to keep up old customs state that moral conditions are now good and there is very little drunkenness. Most of the towns near the reservation are now forbidding the sale of liquor, and it is difficult for the Indians to procure intoxicants. The judge made a protest against a local hotel four years ago and the New York authorities

prosecuted the hotel man for selling liquor to Indians.

I called upon Rev. Louis Bruce, an educated Iroquois, who is pastor of the Methodist Church. He belongs to the progressive party and does not recognize Louis Solomon as hereditary chief, but he confirms what Solomon said with reference to the town of Hogansburg being built on Indian land. He said they do not know nor can they ascertain the terms on which white people are living on this tract of 2,000 acres. Bruce contends that the Indians are under the State of New York jurisdiction and not controlled by the Interior Department of the United States Government.

INDIAN STOCK RAISERS.

I took several Indians in my automobile and went over the resertion, looked at the land, inspected houses, and found the Indians living comfortably and in far better condition than many of our western tribes. Many of them own considerable stock and bring a great deal of milk into the local creamery. Five of the Indians own automobiles and a number of individuals possess as high as 400 and 600 acres of land, and tracts of 200 and 300 acres are common. Most of this land is farmed and the people, as a whole, appear to be progressive and self-supporting.

I visited the home of Mr. Ransom, one of the elected chiefs, and also called upon Moses White, who went about the reservation with

me. Loran Jackson told me there is a strip of land across the Raquette River, and also on this side of the Raquette River, upon which Canadian Indians are living. This land is on the American side, but it is claimed by the Canadians who are living upon it. There are several Canadian families living on the American side, and it is said these Indians also have farms on the Canadian side.

Mr. Bruce's church is more or less of a mission. He thinks conditions fairly satisfactory and that the Indians as a whole compare

favorably with white people as to morals, etc.

The Indians are quite unanimous in their desire that an inspector or special agent come up and spend two or three weeks with them and make a thorough investigation. They contend there are Canadian Indians living on this side of the line who claim various tracts of land. The presence of these Indians causes some friction. It seems to me that the matter should be looked into further.

THE COUNCILS.

At 2 o'clock on the afternoon of October 4 a council was called by the elected chief of the progressive party. This was held in a long, narrow building of modern construction, but patterned after the famous old "long house" of the Iroquois. The building is known as Foresters Hall. Seventy-two Indians were present, and the chief, Peter Loran, presided.

Representing the Board of Indian Commissioners, I made an address of some length in which I asked these Indians to be perfectly frank and to tell me their troubles. I asked them whether they desired citizenship; took up the question of distribution of the fund from which their annuity money comes; what should be done

with reference to the Canadian Indians, and other matters.

The Indians seemed well pleased, and about a dozen of the leading men spoke during the two hours. My address was interpreted into Iroquois by Moses White. All the responses were put into English by Mr. White for my benefit, as the older Indians preferred to speak Iroquois rather than English. They agreed to make for me a copy of all their treaties, agreements, and other papers in their possession. It is interesting to observe that some of these papers have been carefully preserved by the chiefs for over 100 years and are still on the original parchment. It is important to have copies of all of these and I made arrangements to have copies written.

The replies of the Indians need not be set down in detail, but I shall make of them a summary. They do not want an agent. The present agent, they said, from Salamanca, comes over about once a year and pays them \$1.32 each. He brings the clerk with him. They say he is paid about \$300 a year out of their money and he never visits them. The Indians claim that the State pays a doctor to render them medical attention, but that he has refused to visit the Indians on several occasions. Louis Lazone claims that the doctor refused to come to his house when his mother was very low, and that she died without medical attention. This case should be investigated.

The Indians claim that nobody has visited them on any State or National business for 10 years. Mr. Curly Head, the chief, claims that the agent talked with him twice, about five minutes each time.

I questioned the assembly of Indians in regard to their complaints against their school-teacher, for several Indians before the meeting had told me that he was too severe in punishing the children. Several of those in the assembly made speeches confirming these statements. The Indians, from what I learned, want another teacher in his place; but as this is distinctly a State matter, I merely mention it as one of the complaints they urged me to consider.

DIVISION OF LAND.

There seems to be some feeling with reference to the division of land. Many Indians, it appears, have too much land and others have none. The Indians themselves think that those who are land poor should be permitted to obtain by purchase land from the more

wealthy Indians.

Loran Jackson, a prominent man, brought up for discussion the matter of the Canadian Indian owning property. Several of them have 200 and 300 acres each upon the American side. These Indians belong in Canada and should live upon their own farms in that country. They demand of the American residents twice the price of the value of the land when the American St. Regis Iroquois attempt to purchase. It was suggested that the Board of Indian Commissioners and Commissioner Duncan C. Scott, of Canada, take up the matter and attempt to settle it satisfactorily with the Indians.

The council petitioned that the duty on sweet grass and baskets

be removed.

TWO INDIAN PARTIES.

It transpired that there were two factions, or parties, on the reservation. Therefore to placate both sides I held another council near the Canadian line in an old building which the Iroquois had used for some time. This council was presided over by Louis Solomon and attended by more full-blood Indians and Canadian Indians than

the first meeting. There were 60 present.

I delivered another address and the Indians responded at considerable length. They substantiated all the statements made by their brothers in the Hogansburg council. There were two differences of opinion. First, the old Indians believe that the treaties should be preserved and kept and do not like modern conditions. Second, that their friends who live in Canada are not objected to by the full bloods, since they are all Iroquois. But ownership of American land by Canadians is objected to by the progressive element. They gave the same testimony with reference to lack of medical attention and the desire for a change in school-teachers.

I am happy to say that both factions agreed to cooperate, and we

all parted good friends.

In conclusion I desire to say that I agree with the contentions of the Indians, and trust their complaints will receive prompt attention and action.

Respectfully submitted.

WARREN K. MOOREHEAD.

Hon. GEORGE VAUX, Jr., Chairman.

REPORT OF THE SUPERINTENDENT FOR THE FIVE CIVILIZED TRIBES

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REPORT OF THE SUPERINTENDENT FOR THE FIVE CIVILIZED TRIBES OF OKLAHOMA.

DEPARTMENT OF THE INTERIOR,
UNITED STATES INDIAN SERVICE,
OFFICE OF SUPERINTENDENT FIVE CIVILIZED TRIBES,
Muskogee, Okla., September 18, 1918.

Siz: There is transmitted herewith my annual report for the fiscal year ended June 30, 1918, accompanied by the annual reports of the supervisor of Indian schools for the Five Civilized Tribes and the mining trustees of the Choctaw and Chickasaw Nations.

INTRODUCTION.

There are 101,506 enrolled members of the Five Civilized Tribes. It is estimated that between one-fourth and one-third of this number have died. Children born since March 4, 1906, are not enrolled. It is believed that the births have equaled, if not slightly exceeded the deaths, consequently the number of persons entitled to consideration in one way or another in the administration of the affairs of the Five Civilized Tribes is substantially the same from year to year.

The right to enrollment was based upon the tribal relation of blood, intermarriage, freedman, or adoption. Allotments of lands were made to enrolled individuals with a restriction against alienation for a period of years. Subsequent acts of Congress have removed in part this restriction and authorized the Secretary of the Interior to make further removals. This restriction has been thus removed

from approximately 75 per cent of the allotments.

Under the act of Congress approved May 27, 1908, the restriction against alienation was removed from the allotments of all enrolled members of less than one-half Indian blood. For convenient reference the members enrolled as one-half or more Indian blood are considered restricted and those of less than one-half and no Indian blood unrestricted, the restriction having reference to the status of the allotment whether or not every part thereof is alienable with or without the approval of the Secretary of the Interior. mately 25,000 enrolled Indians of the Five Civilized Tribes are therefore restricted. There is also a question as to whether or not all minor children of enrolled members, regardless of their quantum or lack of Indian blood, are under a Federal restriction as to the disposition of their allotments or inheritances of land. Unenrolled children of enrolled restricted Indians are undoubtedly Indians, but no law or rule has been made to determine their quantum of Indian blood; however, their education and inherited property interests are considered and such service as may be indicated is rendered them in the same manner as if they were enrolled restricted Indians, consequently the responsibilities and activities of this office are directly in the supervision of the individual affairs of thirty odd thousand restricted Indians, the distribution of tribal moneys to the unrestricted members of these tribes and the rendering to thousands of

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members both direct and indirect assistance, counsel, and advice

involving their interests both in Federal and State courts.

The Indians of the Five Civilized Tribes are citizens of the State of Oklahoma and of the United States. With few exceptions they are subject to all the laws of the State as are other citizens thereof; the principal and practically only material exceptions being as to the sale and taxation of restricted allotments.

In my annual reports for the fiscal years 1915, 1916, and 1917 I set out in considerable detail the plan of organization, responsibilities, and activities of this office. For the sake of brevity they are not herein repeated except insofar as to show the accomplishments during the past year and the present status of the work.

The activities of this office during the fiscal year 1918 are outlined

under the several divisions as follows:

LAND DIVISION.

This division handles all matters pertaining to enrollment, allotment, and sale of lands and property of the Five Civilized Tribes, hav-

ing charge of all records thereof.

There are 101,506 persons entitled to participate in the distribution of land and money, 78,101 being citizens by blood, adoption, or intermarriage, and 23,405 freedmen. Complete allotments of land or payments of money have been made to all enrolled except seven Chickasaw freedmen who have not been located and four Creek citizens whose application for certain land awaits decision of court as to the rights of others having claim thereto.

There are contained in the Five Civilized Tribes a total of 19,525,966

There are contained in the Five Civilized Tribes a total of 19,525,966 acres of land, of which 15,794,208 acres have been allotted, 3,558,165 acres sold, 139,284 acres reserved for townsite and other purposes, 11,695 acres in the Choctaw Nation withheld for a proposed game preserve, and 7,639 acres in the Choctaw Nation withheld for coal-

mining lessees, leaving 14,795 acres unallotted and unsold.

Table A shows the enrollment of the Five Civilized Tribes corrected to date.

Table B shows the status of enrollment, allotment, and sale of unallotted land June 30, 1918.

TABLE A.

		Rest	ricted.		U	nrestricte	d.	
Nation.	Full bloods.	Mixed three- fourths or more.	One-half to three- fourths.	Total.	Lessthan one-half including inter- married whites.		Total.	Grand total.
Chickasaw Choctaw Mississippi Choctaw Cherokee Creek Seminole	1,515 7,087 1,357 8,703 6,858 1,254	258 709 90 1,803 541 133	708 1,644 30 2,975 1,157 345	2,481 9,440 1,477 13,481 8,556 1,732	3,823 9,699 183 23,424 3,396 409	4,662 6,029 4,919 6,809 986	8, 485 15, 728 183 28, 343 10, 205 1, 395	10, 968 25, 168 1, 660 41, 824 18, 761 3, 127
Total	26,774	3, 534	6,859	1 37, 167	40, 934	23, 405	64, 339	101,506

¹ This indicates the total number of restricted citizens whose names appear on the approved rolls. The approximate number of restricted citizens who have had the restrictions removed from their entire allotments by the Secretary of the Interior and by death is 13,726, leaving 23,441 June 30, 1918.

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TABLE B.—Status of allotment and enrollment work and sale of unallotted lands on June 30, 1918.

	Enrolled						411-44-34-	Unallo	tted.
Tribes.	citizens entitled to allot- ment.		age area of allot- ments.1	Area of home- steads.	Area.	Re- served. ³	Allotted to June 30, 1918.	Sold to June 30, 1918.	Area re- maining unsold.
Choctaw	26, 828 10, 966 41, 824 18, 761 3, 127	6,347 1,562 8,287 5,936 1,309	Acres. 320 320 110 160 120	A cres. 160 160 40 40 40	A cres. 6, 953, 048 4, 707, 903 4, 420, 068 3, 079, 095 365, 852	A cres. 61,008 87,448 22,880 16,016 1,932	Acres. 4, 291, 036 3, 800, 350 4, 346, 173 2, 997, 114 359, 535	Acres. 4 2,567,210 870,095 6 50,985 65,612 4,263	A cree. 14,460 10 30 352 122
Total	101,506	23,441			19, 525, 966	139, 284	15, 794, 208	3, 558, 165	14,975

CHOCTAW AND CHICKASAW NATIONS.

Allatment and disposition of land

Allotment and disposition of land.	
Choctaw Nation, area. Chickasaw Nation, area.	6, 953, 048 4, 707, 903
Total acreage:	11, 660, 951
Allotted in Choctaw Nation Allotted in Chickasaw Nation Reserved in both nations. Unallotted, timber and surface of segregated coal and asphalt land sold. Withdrawn for proposed State game preserve. Withdrawn for mining companies. Unsold	4, 291, 036 3, 800, 350 98, 456 3, 437, 305 11, 695 7, 639 14, 470
Total acreage	11, 660, 951
Total receipts from land sales.	
Patents delivered during fiscal year: Church and school deeds	8
Choctaw and Chickasaw citizens	80 59
Choctaw and Chickasaw citizens Total Undelivered allotment patents	147
Choctaw and Chickasaw citizens	59 147
Choctaw and Chickasaw citizens	\$12, 319, 000 105, 000 45, 000 35, 000 280, 000

¹ Not including Choctaw and Chickasaw freedmen.
³ Reserved from allotments for town sites, railroad rights of way, coal and asphalt segregation, churches, schools, cemeteries, etc.
³ Including timber lands and segregated coal and asphalt lands
¹ This total does not include 167 acres contained in Roebuck Lake and 198 acres contained in Grassy
Lake, Choctaw Nation, which were sold for \$320 and \$193.27, respectively.
⁵ This total does not include 7,639 acres reserved for coal and asphalt lessees, and 11,695 acres of timber land in McCurtain County withdrawn from sale for proposed game preserve in Oklahoma.
⁵ This total does not include 226 acres contained in Big Lake, which was sold for \$3,842.17, and an island in the Arkansas River containing 24.75 acres which was sold for \$550.

UNFINISHED BUSINESS.

Disposition of 41,700 acres of the surface of the segregated coal and asphalt land, including land reserved for coal lessees for mining purposes; also the coal and asphalt deposits underlying the entire segregated coal and asphalt area, 7,750 acres of timber land, 5 acres, including improvements, reserved for the Choctaw Council House, 824 acres, including improvements, reserved for six boarding schools, 2,280 vacant and forfeited town lots, collection of balance due on unallotted land sales, and preparation and delivery of deeds thereto; also disposition of all tracts of unallotted land that may be forfeited by reason of nonpayment of principal and interest.

CHEROKEE NATION.

Allotments or payments of money in lieu of allotments have been made to all enrolled Cherokee citizens, and all of the land and tribal property has been sold, excepting 30 acres erroneously platted as allotted.

Allotment and disposition of land.

Area. Reserved for town sites, etc.	4, 420, 068 22, 880
Allotted	4, 346, 173
SoldUnsold	50, 985 30
Total acreage	
Cherokee deeds delivered fiscal year	39 729

UNFINISHED BUSINESS.

Disposition of 30 acres of land, completion of per capita payments, and settlement of all claims against the nation under the provisions of the act of Congress approved May 25, 1918 (Public, No. 159, 65th Cong.).

CREEK NATION.

Allotment and disposition of land:

Area. Reserved for town sites, etc. Allotted. Unsold. Sold.	3, 079, 095 16, 016 2, 997, 114 353 65, 612
Total acreage.	3, 079, 095
Unsold tribal property and estimated value.	
Council building, Okmulgee 124 town lots, Muskogee, Tulsa, and Lee Boarding school, Nuyaka Boarding school, Eufaula Boarding school, Sapulpa. Unsold land	\$100,000 100,000 16,650 22,500 30,000 3,500
Total	272, 650
Creek deeds delivered fiscal year	3 600

UNFINISHED BUSINESS.

Disposition of unallotted land and other tribal property, equalization of allotments, investigation of alleged duplicate and fraudulent enrollments, and determination of suits to recover valuable oil and gas lands.

The proposed sale of the council building at Okmulgee to the city of Okmulgee is under consideration by the department. Recommendation has been made to the department for the sale of the vacant lots in Muskogee, Tulsa, and Lee in the spring of 1919.

SEMINOLE NATION.

Allotment and disposition of land.

Area	359, 575 1, 932 4, 223
Total acreage	365, 852
Unsold tribal property and estimated value.	
Emahaka Mission School, 320 acres. Mekusukey Academy, 320 acres. Unsold.	22, 400
Total	
Seminole deeds undelivered	420

UNFINISHED BUSINESS.

Disposition of 122 acres of unallotted land and other tribal property, and distribution of balance of tribal funds to members of the tribe. The Mekusukey School is still being maintained. The Emahaka School has been abandoned for school purposes and litigation affecting the ownership of the school building is now pending in the United States Supreme Court.

TOWNSITES.

By departmental regulations of September 24, 1917, 133 town lots in Muskogee and Lee, Creek Nation, Oklahoma, were offered for sale at public auction on November 19 and 20, 1917, of which 44 were sold for \$1,222.50.

Sale of city and town lots, Creek Nation.

City or town.	Number offered.	Number sold.	Appraised value.	Sale price.
Muakogee	91 42	4 40	\$750.00 242.50	\$770.00 452.50
Total	133	44	992.50	1, 222. 50

Payments were completed during the year on 38 lots in the Choctaw, Chickasaw, and Creek Nations, collections thereon amounting to \$1,289.65. Considerable progress has been made with purchasers of town lots in Tuttle, Chickasaw Nation, involved in the compromise settlement made with E. Dowden et al., payments having been completed on 23 lots and deeds thereto issued.

A total of 308 towns, with various additions, have been surveyed and platted by the Government in the Creek, Cherokee, Choctaw, and Chickasaw Nations, and one by the tribal authorities in the

Seminole Nation, as follows:

Towns surveyed and platted.

Nation.	Number of towns.	Area.
Creek		10, 689. 10 9, 531. 47 21, 118. 77 23, 797. 82 635. 00
Total	309	65,772.16

The following statement shows the amount received as payment on town lots by fiscal years:

Receipts from town lots.

Fiscal year ended June 30—	Creek.	Cherokes.	Choctaw and Chickasaw.	Total.
1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917.	\$80, 536, 56 211, 410, 22 106, 479, 26 106, 579, 47 149, 049, 53 22, 701, 96 21, 636, 57 11, 036, 57 11, 030, 57 10, 000 181, 34	21, 296, 40 73, 568, 24 139, 389, 74 244, 450, 74 146, 582, 23 95, 687, 94 28, 358, 05 12, 837, 30 11, 932, 72 372, 00 50, 00	465.15	\$11, 213, 50 25, 100, 93 237, 725, 39 570, 123, 83 554, 621, 72 786, 718, 70 558, 873, 99 558, 873, 99 128, 938, 07 87, 068, 21 132, 894, 26 45, 765, 35 40, 328, 64 16, 173, 49 4, 668, 16 520, 90 1, 311, 90 1, 311, 90 1, 289, 65
Total	738,642.10	773, 297. 40	3, 031, 094. 74	4,543,034.2

Unsold town lots.

Choctaw Nation: Vacant lots.	1. 448
Forfeited town lots	
Reserved for coal lessees	787
Creek Nation:	
Forfeited lots	7
Lots recovered by suit	
Total	2 404

There are still pending in the United States district court several suits to recover lots in the Creek Nation alleged to have been fraudulently scheduled.

AUCTION SALE OF UNALLOTTED, TIMBER, AND SURFACE OF SEGRE-GATED COAL AND ASPHALT LAND.

There have been sold in the Five Nations to June 30, 1918, 42,971 tracts containing 3,558,165 acres for \$20,249,032.58, being \$4,505,563 more than the appraised value and at an average of \$5.39 per acre.

During the year there have been held two auction sales of unallotted lands in the Choctaw, Chickasaw, and Creek Nations. From October 15 to October 31, 1917, there were offered for sale in the Choctaw and Chickasaw Nations, 3,736 tracts, including 400 tracts of the surface of the segregated coal and asphalt land suitable for townsite purposes, containing 3,683.76 acres of which 280 tracts containing 2,870.88 acres were sold for \$51,740.01; 478 tracts of the surface of the segregated coal and asphalt land classified as agricultural and grazing, containing 46,240.19 acres of which 416 tracts containing 40,341.97 acres were sold for \$441,039.28; 2,849 tracts of timber land containing 389,947.25 acres of which 2,791 tracts containing 382,937.59 acres were sold for \$2,349,469.01, and 9 tracts of unallotted land containing 453.65 acres of which 8 tracts containing 443.65 acres were sold for \$5,570.15. On November 19 and 20 there were offered in the Creek Nation, 39 tracts containing 2,500.23 acres of which 2,147.73 acres were sold for \$53,917.79.

Immediately following are Tables C, D, E, F, G, H, and I, showing status of the sales of the unallotted land in the Five Civilized Tribes.

Table C.—Sale of unallotted land, Choctaw and Chickasaw Nations, without minimum price.

	Land	offered.		Lan	d sold.		Land	ınsold.
County.	Num- ber of tracts.	Area in acres.	Num- ber of tracts.	Area in scres.	Sale price.	Average sale price per acre.	Num- ber of tracts.	Area in acres.
Le Flore Latimer. Hughes Atolna. Murray McClain. Carter.	1 1 1 2 2 1	76, 60 40, 00 160, 00 40, 00 20, 00 97, 05 20, 00	1 1 1 1 1 2	78.60 40.00 160.00 40.00 10.00 97.05 20.00	\$766.00 760.00 1,440.00 320.00 42.50 1,981.65 260.00	\$10.00 19.00 9.00 8.00 4.25 20.42 13.00	1	10
Total	. 9	453. 65	8	443.65	5, 570. 15	12.55	1	10

[Regulations of July 21, 1917.]

TABLE D.—Sale of segregated coal and asphalt lands, Choctaw and Chickasaw Nations (agricultural and grasing).

[Regulations of July 21, 1917.]

	Land	Land offered.		-	Land sold.	old.			Land unsold.	nsold.
Сошьту.	Number of tracts.	Ares in scres.	Number of tracts.	Ares in scres.	Sale price.	Appraise- ment, land and improve- ments.	A verage appraise- ment per acre.	A verage sale price per acre.	Number of tracts.	Ares in scres.
Le Flore Haskell Pittsburg Latimer Coal Prumatala Prumatala	118 128 128 128 120 120 120 120 120 120 120 120 120 120	14, 743, 20 25, 563, 48 1, 040, 92 3, 040, 92 1, 040, 92 1, 042, 93 230, 98 226, 00	22446000	14, 677. 41 20, 011. 91 1, 024. 42 3, 180. 63 1, 180. 63 458. 75 830. 98 225. 00	25.5 25.5 25.7 25.7 25.7 25.9 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8	\$139,779.08 202,779.08 203,562.02 13,562.02 1,613.22 5,613.72 4,954.70 3,870.00	8444444 844888	847471944 847888798	2 166.79 68 5,651.67 1 16.50 1 134.86	165.79 5,581.57 16.50 134.36
Total	478	46, 240, 19	917	40,341.97	441, 639. 28	467, 919. 90	11.4	10.90	62	5, 898, 22
TABLE E.—Sale of segregated coal and asphalt lands, Choctaw Nation (townsite additions). [Regulations of July 21, 1917.]	gated coal	l and asphalt lands, Cho Regulations of July 21, 1917.	ilt lands, of July 21,	Choctaw 1917.]	Vation (tow	nsite additi	ons).			•
	Land	Land offered.	i		Land sold.	olđ.			Land unsold.	nsold.
County.	Number of lots.	Area in acres.	Number of lots.	Area in acres.	Sale price.	Appraise- ment.	Average appraise- ment per acre.	A verage sale prios per acre.	Number of lots.	Ares in scres.
Pushmataha Lo Flore Heakell Fittsburg Latimer Coal	17 27 161 161 88	88.74 402.90 288.75 1,933.06 302.74 767.59	2842388	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	885.00 6,401.80 5,155.00 3,620.00 12,438.21	4,4,8; 8,4,0,0 8,4,0,0,0 8,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	25 25 25 25 25 25 25 25 25 25 25 25 25 2	27.24.7.4.2 20.082.2	311 8 311 8	35.10 30.67 30.67 511.10 56.15 134.40
Total	400	3, 683. 76	280	2,870.88	51, 740. 01	40, 692, 95	14.24	18.11	120	812. 88

Table F.—Sale of timber lands, Choctaw Nation. [Regulations of July 21, 1917.]

	Land	Land offered.			Land	Land sold.			Land 1	Land unsold.
County.	Number of tracts.	Ares in scres.	Number of tracts.	Ares in scres.	Sale price.	Minimum price.	Average sale price per acre.	Average minimum price per acre.	Number of tracts.	Ares in scres.
McCurtain Pushmatais Le Fore- Latinae. Pittsburg	993 838 688 319	130, 970. 45 106, 563. 71 104, 017. 32 47, 434. 78 1, 700. 99	990 7795 778 318	130, 735. 24 100, 803. 98 102, 422. 60 47, 274. 78 1, 700. 99	2011, 017. 11 620, 967. 83 489, 404. 96 315, 562. 86 12, 496. 15	\$636, 173. 43 471, 230. 21 303, 301. 53 156, 812. 13 8, 719. 00	57.03 6.13 7.7.4 7.7.7	\$4.91 4.64 2.96 3.30 5.13	3 43 11 1	235.21 5,759.73 1,594.72 160.00
Total	2,849	390,687.25	2,791	382,937.59	382, 937.59 2, 349, 469.01 1, 578, 736.30	1,578,736.30	6.13	4.11	32	7,749.66
	TABLE (Table G.—Recapitulation.	ılation.	Choctaw and Chickasaw 1917 sale.	d Chickasaw	1917 sale.				
	Land	Land offered.			Land sold	sold.			Land u	Land unsold.
Class of land,	Number of lots.	Ares in scres.	Number of lots.	Area in acres.	Sale price.	Appraise ment.	Average appraise- ment per acre.	Average sale price per acre.	Number of tracts.	Ares in scres.
Segregated: Timber, additional Agricultural and grazing Timber Unallotted		3, 683. 76 46, 240. 19 389, 947. 25 453. 66		2,870.88 40,341.97 382,197.59 443.65	\$51, 740. 01 441, 039. 28 2, 349, 499. 01 5, 570. 15		814 11.4 11.4	\$18.11 10.90 6.13 12.55	120 258 1	812.88 5,808.22 7,746.06 10.00
Total	3,736	440, 324. 85	3,495	425, 854. 09	425, 854. 09 2, 847, 818. 45	2, 075, 349. 15	4.87	8 5	X	14, 470. 78

TABLE H.—Creek Nation unallotted land. Regulations of Sept. 24, 1917.

	Land	Land offered.			Land sold.	sold.		•	Land unsold.	nsold.
County.	Number of tracts.	Ares in scres.	Number of tracts.	Area in acres.	Sale price.	Minimum price.	Average sale price per acre.	Average price per acre.	Number of tracts.	Ares in scres.
Muskogee Leintosh Hughes Offusies Offusies Creek Tules Tules	14 0 4 4 5 1 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	30.00 18.88 1,009.40 212.50 210.00 1,016.85 2,50	1001189	30.00 18.98 18.98 52.50 21.00 21.00 856.85 2.50	81, 230.00 173.14 12, 008.89 1, 128.75 7, 589.51 81, 589.51 257.50	\$750.00 8, 332.65 315.00 2, 355.00 16, 189.16 37.50	26.10 21.20 21.20 21.20 26.80 36.80 103.00	8.55.00 8.55.00 11.30 11.30 115.00	1 33.56 1 1 180.00 1 1 180.00	32.56 160.00 160.00

Nors.—The two unsold tracts in Okluskee and Creek Counties were withdrawn from sale by departmental instructions.

TABLE I.—Status of unallotted land sold in the Choctaw, Chickasaw, Cherokee, Creek, and Seminole Nations, from Nov. 1, 1910, to Nov. 20, 1917, including timber land in the Choctaw and Chickasaw Nations.

			Land offered.	red.			Land sold.	old.			Lend	Land unsold.
Date of sale.	Nation.	Num- ber of tracts.	Area.	Minimum price.	Num- ber of tracts.	Area.	Sale price.	Appraisement of land sold.	A verage Aver- at appraise age ment per sale acre. price.	Aver-	Remain ing tracts unsold	remaining unsold.
Dec. 1, 1910, to Oct. 31, 1917, in-	Choctaw and		3, 462, 732	\$15, 567, 891. 39	38,625	13, 487, 306. 09	38, 866 3, 462, 732 816, 667, 891. 39 38, 625 13, 437, 306, 09 \$19, 596, 062. 13 \$16, 574, 754. 76	\$15, \$74, 754. 76	7.	25. 25.	8	14,470.76
Nov. 21, 1910, to May 27, 1916 Nov. 21, 1910, to Nov. 20, 1917 Nov. 21, 1910, to June 28, 1913	000	2,1, 8,5, 1,5, 1,5, 1,5, 1,5, 1,5, 1,5, 1	50,965 65,965 4,385	250, 228. 90 225, 085. 18 20, 106. 06	2,85 1,428 82 83	\$50,985.00 65,612.50 4,263.00	177, 745, 19 381, 846, 00 40, 441, 37	124, 646, 28 223, 963, 00 20, 103, 06	4 :3 4 5 25 7 6	869 487	800	30.00 352.50 122.50
Grand total of Five Nations.		43,217	3, 584, 087	16, 063, 320. 53	42,971	3, 558, 165.59	20, 249, 032, 58	43,217 8,584,067 16,063,320.68 42,971 3,558,166.59 20,349,032.58 15,748,469.10		6.30	248	14, 975, 26

This total does not include 157 acres contained in Rosbuck Lake and 198 acres contained in Grassy Lake, Choctaw Nation, which were sold for 530 and \$193.27, respectively.
This total does not include 11,90 acres of timber land in McCurrain Country withdrawn from sale for a proposed game preserve in Oklahoma.
This total does not include 220 acres contained in Big Lake, which was sold for \$3,842.17, and an island in the Aransas River containing 24.73 acres, which was sold for \$3,842.17, and an island in the Aransas River containing 24.73 acres, which was sold for \$550.
This total represents land involved in suit in the United States court and 2 acres of abandoned school reservations.

There have been sold to date 1,905,139 acres of unallotted land for \$10,625,324; 385,935 acres of the surface of the segregated coal and asphalt land for \$3,328,731; 1,267,821 acres of timber land for

\$6,294,977.

The sales were extensively advertised in the principal newspapers in Oklahoma and many of the leading newspapers and periodicals in other States. In addition, the railroads operating in Oklahoma and surrounding States gave liberal and efficient assistance in advertising the sales. Approximately 165,000 circulars, descriptive lists, and other advertising matter were mailed, and posters were sent to

every post office having 1,000 population or more.

The result of the sales was most gratifying as 91 per cent of the tracts and lots offered and 96 per cent of the acreage offered were sold, and the average price per acre obtained exceeded that of any previous unallotted land sale. Every tract offered in McCurtain County was sold except 3, and in Le Flore County except 24. All of the unallotted land tracts were sold except one tract located in Murray County and one tract in Hughes County, Creek Nation. Schedules of the sales have been prepared and approved by the Secretary of the Interior, and certificates of purchase have been issued. There have been prepared 9,287 patents, covering 13,931 tracts or lots.

Proper record of payment of the principal and interest has been made, necessitating 76,000 entries, and 65,000 receipts and notices were prepared and mailed.

The following statement shows the payments of principal and

interest:

 Principal.
 \$4,623, 190.46

 Interest.
 285, 252.50

 Total.
 4,908,442.96

Statement of patents prepared for purchasers of unallotted land in the Choctaw, Chickasaw, Cherokee, Creek, and Seminole Nations.

Nation.	Pre- viously reported.	1918	Total.
Chortaw and Chickasaw	12, 169 1, 518	9, 287	21, 456 1, 518 972
Greek	962 31	10	972 31
Total	14,680	9, 297	23,977

AUCTION SALE OF MISCELLANEOUS PROPERTY.

By departmental authority of August 26, 1916, the Bloomfield Academy property in the Chickasaw Nation, consisting of 158 acres of land and several buildings, was offered for sale at public auction on July 7, 1917, and sold for \$5,455, which sale was approved by the Secretary of the Interior August 28, 1917. On March 30, 1918, a small island in the Arkansas River, Cherokee Nation, containing 24.75 acres, was sold at public auction, by departmental authority, for \$550.

EXTENSIONS OF TIME.

On January 2, 1918, the department authorized an extension of time not to exceed one year to purchasers of timber and unallotted land in meritorious cases, and extended the second installment then due or soon to become due for one year on tracts of the surface of the segregated coal and asphalt land in the Choctaw and Chickasaw Nations. Purchasers were duly notified thereof and approximately 8,000 extensions were granted.

RECORDING OF PATENTS AND OTHER INSTRUMENTS.

The following statement shows the progress in recording patents, deeds, and other instruments during the year ended June 30, 1918:

•	_	•		•	
Creek homestead and allotment deeds				 	3
Cherokee homestead and allotment deeds.			• • • • • • • •	 	15
Church and school deeds			. .	 	9
Town lot deeds					
Unallotted land deeds, Choctaw and Chicl	kasaw i	Nations.		 	5, 582
Miscellaneous deeds			• • • • • • • •	 	4
					
Total					5.693

BENTAL OF THE SURFACE OF THE SEGREGATED COAL AND ASPHALT LAND.

There are 6,710 acres of the surface of the segregated coal and asphalt land and 1,410 vacant Government town lots in the segregated coal and asphalt area that have not been sold, and approximately 35,000 acres of the surface of the segregated coal and asphalt land and the surface of 787 vacant Government town lots in the Choctaw and Chickasaw Nations reserved by coal companies for mining purposes. During the year 908 applications to rent the surface of these lands were granted and \$16,462.15 was collected.

APPRAISEMENT OF COAL AND ASPHALT DEPOSITS IN THE CHOCTAW AND CHICKASAW NATIONS.

Under the act of Congress approved February 8, 1918, providing for the appraisement and sale of the coal and asphalt mineral deposits underlying the segregated coal and asphalt land in the Choctaw and Chickasaw Nations, Gabe E. Parker, Superintendent for the Five Civilized Tribes, J. George Wright, Superintendent of the Osage Indian Agency, and J. J. Rutledge, of the United States Bureau of Mines, were appointed appraisers to make the appraisement, and regulations to govern the appraisement have been approved by the Secretary of the Interior.

The appraisers upon receiving their appointments immediately proceeded with the work and very satisfactory progress has been made. Maps showing the numbers of the tracts, the location of the leased and unleased area, the mined and unmined area, and coal outcrops and mine openings have nearly all been finished, and the field work is well under way. The work is tedious and complicated, especially that in connection with appraising the leased area, it being necessary to determine as near as possible the amount of coal mined and unmined.

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TRIBAL RECORDS.

Under the provisions of section 13 of the act of Congress approved May 27, 1908 (35 Stat., 312), the Superintendent for the Five Civilized Tribes is custodian of the tribal records of the Choctaw, Chickasaw, Cherokee, Creek, and Seminole Nations. These records are in a very poor condition, and as many persons appear at the office to examine them and many requests are received for certified copies thereof, some provision should be made by Congress to preserve same and make proper indexes thereof.

CERTIFIED COPIES.

During the year there have been prepared 18,330 certified copies of the records on file in this division, for which was received \$21,360.10. The tollowing statement shows the number of certified copies prepared and delivered and amount of fees collected therefor:

Character of instrument.	Number.	Amount collected.
Deeds and patents	4,858	\$4,858.0
pproved rolls.	416	104.0
ge certificates irth and death affidavits.	326 1,351	81. 5 1. 351. 0
llotment certificate stubs	372	1,001.0
ensus cards	4.320	4,329.0
opplications for allotment	143	143.0
roofs of heirship. Arrollment and miscellaneous records.	40 3,506	40. 0 8, 818. 7
Plats of sales and allotments, including blue prints	1,933	1, 360, 9
ost-office addresses	7,879	87.9
Records for official use	177	
Total	18, 330	21, 360. 1

ILLEGAL CONVEYANCES OF ALLOTTED LAND.

Under the provisions of the act of Congress approved May 27, 1908 (32 Stat., 312), there have been instituted heretofore in the United States District Court for the Eastern District of Oklahoma, 27,517 suits to clear the title to alleged illegal conveyances of allotted Indian lands. Of the suits thus instituted 23,327 had been disposed of prior to July 1, 1917. During the year 1,244 additional suits were disposed of, leaving 2,946 pending.

ENBOLLMENT AND ALLOTMENT LITIGATION-CREEK NATION.

During the year the United States Supreme Court decided the Barney Thlocco case, involving 160 acres of valuable oil land, adverse to the Government's claim, and awarded the land in controversy to the heirs. Decisions were also rendered by the United States Court in the Tommy Atkins and Lettie McGilbra cases adverse to the Government's contentions. Several cases involving the rights to enrollment and allotment of Creek citizens are pending in the United States courts. Four additional cases of alleged duplicate or fraudulent enrollment and allotment have been reported to the department

for consideration. There are still pending at this office 11 cases of this character, requiring additional information before further action can be taken.

IMPROVEMENTS ON THE SEGREGATED COAL AND ASPHALT LANDS.

The acts of Congress authorizing the sale of the surface of the segregated coal and asphalt lands and improvements located thereon in the Choctaw and Chickasaw Nations, approved February 19, 1912 (37 Stat., 67), and August 24, 1912 (37 L., 518), provide that upon the expiration of two years after the lands have been first offered for sale, that the surface of the land and the improvements located thereon shall be offered and sold regardless of the appraised value thereof. This limitation expired as to the agricultural and grazing land prior to the October, 1917, sale. At this sale 71 tracts of this class of land containing improvements were sold, and proper adjustment has been made with all of the owners of such improvements except in three cases.

CLOSING AFFAIRS OF THE FIVE CIVILIZED TRIBES.

By joint resolution of Congress approved March 2, 1906 (34 Stat., 822), the tribal existence and tribal governments of the Choctaw, Chickasaw, Cherokee, Creek, and Seminole Tribes of Indians, in the Indian Territory, now Oklahoma, were continued in full force and effect for all purposes under existing laws until all property of such tribes, or the proceeds thereof, shall be distributed among the individual members of said tribes unless thereafter otherwise provided

by law.

All of the land and tribal property of the Cherokee Tribe has been allotted or sold except 30 acres of unallotted land in two tracts. The only unfinished business is the disposition of these two tracts, completion of per capita payments already authorized, execution of 138 deeds to allottees, and 3 deeds to purchasers of unallotted land, including the two unsold tracts, and settlement of all claims made against said tribe. Section 18 of the Indian appropriation act approved May 25, 1918 (Public, No. 159, 65th Cong.), provides for the filing and settlement of all claims against said nation and authorizes the Secretary of the Interior to expend the tribal funds remaining to the credit of said nation, after the expiration of the time limit therein provided, for building and furnishing an additional dormitory for the Cherokee Orphan Training School near Tahlequah, Okla.

All of the tribal land and property of the Seminole Nation has been disposed of except 122 acres of unallotted land, 120 acres of which is involved in suit to clear the title thereto in said nation, and 640 acres reserved for the Emahaka and Mekusukey tribal schools and improvements located thereon belonging to said nation, the completion of the per capita payments authorized, and distribution of the balance of the tribal funds to the members of said tribe; also to execute a few

deeds to allottees and purchasers of unallotted land.

There appears to be no good reason why the tribal governments of these two tribes should not be discontinued. It is possible, however, that a few small tracts of unsold unallotted land may be dis-

covered which will have to be sold and conveyed, or some unforeseen matter of importance affecting said tribes may arise which will re-

quire the action of legal representatives of said nations.

Inasmuch as the work in connection with closing the tribal affairs of the Cherokee and Seminole Nations is completed, with the exceptions noted, it is recommended that, by proper congressional enactment, the tribal existence and the tribal governments of said tribes be discontinued, and that the Secretary of the Interior be authorized to execute all deeds to allottees of said tribes and to purchasers of unallotted lands thereof, and to represent and act for and in behalf of said tribes in all matters whatsoever affecting same; also to employ a competent attorney or attorneys, if found necessary, to represent said tribe or tribes and prosecute all matters that may arise affecting same, the attorney or attorneys so employed to be allowed such compensation as may be determined upon by the Secretary, with an allowance for subsistence and necessary traveling expenses during the continuance of his or their services, payable from tribal funds in the United States Treasury to the credit of the tribe or tribes represented by attorney or attorneys.

The unfinished business in the Choctaw, Chickasaw, and Creek Nations, especially in the Choctaw and Chickasaw Nations, as appears from this report, is of such a magnitude, it is believed that it is not now an opportune time to discontinue the tribal governments of these two nations. It is suggested that with reference to the coal and asphalt minerals in the Choctaw and Chickasaw Nations remaining unsold, after first being offered at public auction under existing law, they be sold to the United States or to the State of Oklahoma. This would hasten the closing of the tribal affairs of these two nations. By the close of another year it is probable that the affairs of the Creek Nation will be in such a condition as to warrant the discontinuance

of the tribal government of said nation.

TRIBAL GOVERNMENTS AND ATTORNEYS.

During the fiscal year ended June 30, 1918, tribal warrants were drawn as shown below for salaries and expenses of tribal officers, attorneys, and other expenses of the tribal governments of the Cherokee, Creek, Choctaw, and Chickasaw Nations.

warranis issued during fiscal year ended June 50, 1918.	
	Total paid.
Cherokee Nation	\$ 75. 0 0
Creek Nation	18, 212, 88
Choctaw Nation	
Chickasaw Nation	

Tribal officials and attorneys for the Five Civilized Tribes were paid from tribal funds authorized by Congress as follows: Tribal officer of Cherokee Nation, W. C. Rogers, principal chief, Skiatook, Okla.; salary per annum, \$300. Mr. Rogers died the 1st of October, 1917, and as the tribal affairs of the Cherokee Nation are practically closed, no one was appointed to fill his place.

Tribal	officers	of Creek	Nation.
--------	----------	----------	---------

Name.	Period in office.	Title.	Post-office address	Salary per annum.
Moty TigerG. W. Grayson	July 1 to Sept. 30, 1917. Oct. 1, 1917, to June 30, 1918.	Principal chiefdo	Sharp, Okla Eufaula, Okla	\$2,000 2,000
Eula J. Branson R. C. Allen	July 1, 1917, to Jan. 31,	Tribal secretary Tribal attorney	Muskoges, Okla	1,500 5,000
Jas. C. Davis	1918. Feb. 1 to June 30, 1918.	do	do	5,000

The contract of Mr. R. C. Allen as tribal attorney was renewed for the fiscal year 1918, allowing him the services of one stenographer at a salary of \$100 per month and expenses, including court costs, etc., in the performance of his duties. The total amount expended by him, including stenographers, clerical help, interpreters, etc., was \$1,485.64, and for traveling expenses, office incidentals, court costs, etc., \$2,014.81. Mr. R. C. Allen resigned January 31, 1918, and Mr. James C. Davis was appointed to fill his place. The total amount expended by him, including stenographer, clerical help, interpreters, etc., was \$716.25, and for traveling expenses, office incidentals, court costs, etc., \$1,452.29.

Tribal officers of Choctaw Nation.

Name.	Title.	Address.	Salary per annum.
Mrs. Dollie Locke Archer Peter J. Hudson	Principal chief Tribal secretary Tribal interpreter Mining trustee	Tuskahoma, Okla	1,000 1,200

Mr. P. J. Hurley's contract as tribal attorney was not renewed for the year 1918, as he entered the military service. There was no tribal attorney appointed during the year. Mr. Victor M. Locke, Jr., principal chief, accepted an appointment in the military service and by reason thereof automatically vacated his office on January 1, 1918.

Tribal officers of Chickasaw Nation.

Name.	Title.	Address.	Salary per annum
Ludie Johnston Eastman Johnson	Governor Tribal secretary Interpreter Mining trustee Tribal attorney.	Milburn, Okla	1,000

Mr. Reford Bond's contract was renewed at \$5,000 per annum and expenses incurred by him in the performance of his duties. Such expenses for the fiscal year 1918 were \$1,473.66.

The tribal officers of all nations are allowed their traveling and necessary expenses when away from home while on official business, except the mining trustees of the Choctaw and Chickasaw Nations.

The Cherokee and Seminole Nations had no tribal attorneys for the fiscal year 1918, and all legal matters affecting restricted Indians and other citizens of those nations were attended to by the United States

probate attorneys.

After July 1, 1914, the salaries and expenses of probate attorneys and other expenses of protecting minor allottees and citizens of the Five Civilized Tribes under legal disability have been paid from an appropriation by Congress and not from tribal funds, as in some cases during the fiscal year 1914.

The duties of the principal chiefs and governors of the various nations composing the Five Civilized Tribes are to represent the respective nations pending the settlement of tribal affairs and to sign

deeds and other tribal documents.

In accordance with section 11 of the act of Congress approved April 26, 1906, the salaries of tribal officials, including the tribal attorneys, are paid by the disbursing officer of the Superintendent for the Five Civilized Tribes upon warrants signed by the principal chief or governor, as the case may be, and approved by the Department of the Interior.

FIELD DIVISION.

This division is concerned with the organization and general direction of the field employees. About 60 per cent of the employees of this office are located in the field at various places away from Muskogee. The territory under supervision comprises 40 counties in Eastern Oklahoma and is divided into the following field districts:

District No.	Location of field office.	Countles.
	Vinita. Locust Grove	Ottawa, Craig, and part of Mayes. Delaware and part of Mayes.
	Nowata	Washington, Nowata, and Rogers. Creek and Tulsa.
	Muskogee	Wagoner, Muskoges, and McIntosh. Cherokes.
 0,	Poteau	LA Flore and Haskell
1	Atoka	Pontotoc, Coal, and Atoka.
3	Chickasha	Grady, Stephens, and Jefferson. Carter, Love, and Marshall.
6	Hugo	Chootaw and Pushmataha
9		Seminole.

Although greater difficulty has been experienced during the past year than ever before in securing and retaining experienced field employees, much satisfactory progress has been reported. The field clerks, appraisers, probate attorneys, farmers, Indian police, and other employees who constitute the personnel of the field force have, almost without exception, worked diligently, harmoniously, and with a common purpose. I feel that they deserve the highest commendation for the manner in which they have met the increasing responsibilities that have devolved upon them. Many of the men in this service have responded patriotically to the Nation's call to military service, and many others have been left with inexperienced or inadequate help with which to carry on their work. In numerous instances

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it has been impossible to fill vacancies promptly at the salaries permissible under our appropriation, and this has often unavoidably entailed additional work on those who remained in the service. More than one-third of the employees who were in this service at the

beginning of the fiscal year have resigned.

A gratifying tendency on the part of restricted Indians to cooperate more earnestly with field employees in every worthy endeavor has been reported from all districts. This is notably true with respect to war activities and the closely related subject of food and feed production. Their young men have entered the military service in large numbers and, I am reliably informed, are making excellent soldiers. Those in civil life have responded liberally to every call for the purchase of Liberty Bonds and War-Savings Stamps, and their contributions to the American Red Cross have in almost every community compared favorably with and in some instances exceeded those of their white neighbors. No accurate statement can be furnished as to the total amounts Indians of the Five Civilized Tribes have subscribed to the Red Cross and for Liberty Bonds and War-Savings Stamps, as their subscriptions to the Red Cross have largely been unrestricted funds, as have also a large number of the subscriptions which they have made to Liberty Loans and for War-Savings Stamps. A conservative estimate, however, is \$10,000,000.

The outstanding feature of the field work of the year has been the remarkable unanimity with which Indians have responded to the Nation's call to service. The gigantic conflict in which the world is now engaged has aroused in the Indians of eastern Oklahoma dormant energies and latent capacities of heart and mind hitherto hidden and unknown. They meet with members of their race and with their white neighbors at Red Cross and other patriotic gatherings and by word and deed evince the same true spirit of patriotism that actuates all worthy Americans. Their wives and daughters render loyal and self-sacrificing service to the Red Cross and every other worthy movement participated in by their white sisters. Recently one of our farmers called to my attention an instance of one of these worthy women, a full-blood, who regularly drives 10 miles twice each week to the nearest Red Cross meeting place in order that she may there do her bit making garments for the soldiers. This is not an isolated

case, as many instances of like character could be cited.

Beginning January 8, 1918, a meeting of the field clerks and Government farmers was held in this office for the purpose of furthering the campaign for increased food and feed production inaugurated during the preceding year. This meeting proved to be of even greater interest and value than a similar one of the previous year. The director of the extension division of the State College of Agriculture at Stillwater was present and rendered valuable aid in making the meeting a success, as did also the County Agent for Muskogee County. Another interesting and valuable feature of this meeting was an address on poultry raising, delivered by Mr. C. L. Jackson, an attorney of Muskogee, who is a very successful grower of pure-bred poultry and who has for a number of years been one of the most active exponents of increased poultry production in this State.

The following statement shows disbursements of individual Indian funds made during the year under the immediate supervision of the field clerks and the superintendent of construction, and will give a general idea of the work performed by these employees:

Business transacted by field force, fiscal year 1918.

Houses built (127).	\$ 134, 466, 67
Barns built (51)	22, 912. 95
Wells drilled or dug (96)	8, 093, 94
Labor, clearing land, etc	15, 061. 49
Horses purchased (255)	31, 599. 75
Mules purchased (217)	32, 140. 03
Cattle purchased (494)	35, 766. 84
Hogs purchased (509)	12, 306. 40
Wire purchased	25, 855. 67
Lumber purchased	35, 571. 12
Furniture	28, 112. 52
Wagons (228)	35, 632 15
Implements	25, 461 35
Harness	10, 754. 81
Feed	23, 214. 96
Groceries and provisions	26, 473. 4 7
Physicians and drugs	25, 120. 54
Cash, monthly payments and interest	220, 725. 85
Royalty payments	97, 553. 12
Rental, agricultural	18, 758. 10
War Savings Stamps	15, 177. 33
Payments	9, 445. 66
Land purchased	14, 508. 75
Miscellaneous	143, 303. 79
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The following statement shows the amount of money disbursed to individual Indians, including amount expended under supervision and disbursements made by check direct to allottees on advice of field clerks:

Land sales, equalization and restricted per capita payment accounts	\$631, 925. 46
Royalties Per capita payments (approximately).	1, 797, 516, 25
rer capita payments (approximately)	2,000,000.00

Total...... 4, 429, 441. 71

All of the disbursements included in the total of \$4,429,441.71 above shown were made either directly under the supervision of the field clerks or upon their recommendation. It can be readily understood that the task of supervising the immense number of disbursements included in this large sum has involved a very great amount of arduous work.

In addition to supervising these disbursements and performing their numerous other duties, our field men have assisted many Indians in leasing their lands and collecting rentals. They have thereby saved for allottees the sum of \$18,683.10. It is the practice of field employees to advise all restricted Indians to confer with the field clerk before leasing their lands. Where this advice is followed, the interest of the lessor is almost invariably better protected and usually a considerably larger rental is secured.

The Ford automobiles purchased during the preceding year have continued to contribute to the efficiency of the field force. They have enabled the field men who had them at their disposal to perform several times as much work as they otherwise could have accomplished and have proven to be an excellent investment. One of these ma-

chines was destroyed by fire during the year, and some of the others, by reason of the strenuous service to which they have necessarily been subjected, have depreciated to such an extent as to require replacement. The present greatly increased cost of feed and livery hire has made it very necessary that a greater number of the field men be supplied with cars.

INDUSTRIAL WORK-GOVERNMENT FARMERS.

The acreage planted by restricted Indians, to food and feed crops has shown a marked increase over that of any preceding year. Especially is this true with respect to wheat. In almost every community, Indians have devoted largely increased areas to this important crop, and in one county (Adair), where there is a large full-blood population, it is estimated that the wheat acreage is from five to eight times that of any former year. The yield of both wheat and oats has been very gratifying. Much of the land cultivated this year is new land that is being tilled for the first time, the crops from which accordingly represent a net gain in food and feed production.

The demonstration plot method of teaching better farming described in my report of last year has been continued and has again proven very effective. One of the best of these plots is on the allotment of an Indian belonging to the so-called "Night Hawk" class

referred to in my last report.

In order to more effectually promote the growing of food and feed crops, it was found necessary during the past year to extend to restricted Indians considerable assistance in the matter of the purchase of seeds. The amount expended for seed wheat, a crop that had hitherto been but little grown, constituted the largest item thus disbursed from the reimbursable funds, although various other seeds were purchased in considerable quantities. The assistance thus rendered restricted Indians has resulted in a very material increase in the acreage they have planted and has undoubtedly greatly encouraged many to try to become more useful and productive citizens. It seems probable that comparatively few of the Indians who have thus received aid will require further assistance in this respect, but as there is a very marked tendency among our Indians to extend their farming operations, it seems reasonable to expect that there will for some time be many applications for seeds that should receive favorable consideration.

Stock raising is becoming an important industry with restricted Indians in many sections. A number of allottees have recently, under the supervision of the field clerks and farmers, invested considerable sums in pure-bred cattle and hogs, and many reports have been received showing that Indians have either through purchase or breeding increased their live-stock holdings. There has been but little disease among stock reported, and the outlook for a continued

advance in this direction is highly encouraging.

The poultry industry, heretofore confined chiefly to the urban population of eastern Oklahoma, is now beginning to receive from Indian farmers a share of the attention it deserves, and it is hoped that the near future will show a great improvement along this line.

that the near future will show a great improvement along this line. Home gardening, canning, and drying have, under the supervision of our field men cooperating with Federal, State, and county agents and with clubs and various other organizations, assumed an importance hitherto unknown. In many communities it is very exceptional to find an Indian family without a good garden. At county and district fairs held during the fall of 1917 restricted Indians of the Five Civilized Tribes won 72 first, 29 second, 1 third, and 1 fourth prizes. They also won 3 second prizes at the Oklahoma City Fair, and 17 first, 13 second, 2 third, and 2 fourth prizes at the Muskogee Free State Fair. At the Indian fair held at Wetumka in Hughes County 110 prizes and a number of ribbons were awarded to Indians. and at the Indian fairs at Atoka, Ada, and Locust Grove, Indians were awarded 12, 28, and 13 prizes, respectively. The Five Tribes exhibit again won first prize at the Oklahoma City Fair in competition with all other Indian agencies in the State and the silver cup was awarded this superintendency for the fourth consecutive year. have just recently been advised that the National War Garden Commission has awarded to Mrs. Simon Billy, a restricted Choctaw Indian of Hugo, Okla., their national capital prize for the best home-garden canned vegetables exhibited at the Muskogee Free State Fair during the year 1917.

SPECIAL INSPECTION.

During the past year many cases of both criminal and civil character involving various matters pertaining to the restricted Indians have been investigated. The most important of these cases are as follows:

Forged indorsements of Government checks
Fraudulent practice before the department.
Charges of fraud in removal of restrictions
Violation of departmental lease regulations
False statements of facts in proof of heirship
Enrollment frauds
Duplicate enrollment
False personation of Indians
Forged deed to Indian allotment
Charge of arson.
Embezzlement by guardians
Extortion practiced upon Indians
Matters pertaining to war work
Charges against former employees. Confidential investigations requested by Commissioner of Indian Affairs

In the violation of the criminal laws in the above cases, one forger has been tried and convicted; three other offenders, one charged with forgery and two with embezzlement, are now awaiting trial, indictments having been secured in the State and Federal courts, and one other, found guilty of fraudulent practice, has been disbarred by the department. In several other cases the courts failed to return indictments on account of insufficient evidence. Considerable money has been recovered and returned to the Indians as a result of investigations of forged checks, embezzlement of funds by guardians, and fraud perpetrated by unscrupulous persons.

RESTRICTIONS DIVISION.

There have been allotted to members of the Five Civilized Tribes a total of 15,794,208 acres. These allotments were made subject to a restriction against alienation. By various acts of Congress and

by the Secretary of the Interior, under authority of law, the restriction against alienation has been removed from approximately 12,825,196 acres. The remaining restricted acreage is approximately 2,888,162 acres, about 18.3 per cent of the entire allotted area.

Under the act of Congress approved May 27, 1908 (35 Stats., p. 312), the Secretary of the Interior is authorized to remove the restriction, wholly or in part. Applications or suggestions for such removals are first made to or by the field clerks. The field clerks satisfy themselves as to the necessity and advisability of removals, and upon investigation base their recommendations to this office for conditional or unconditional removals, depending upon the ability of the individual Indian to handle the land (or the proceeds of a sale) without the assistance of the Government.

When a conditional removal is recommended and is approved by the Secretary of the Interior, the land is offered for sale at public auction to the highest bidder after having been extensively advertised for 30 days by newspapers and circulars. Where the needs of the allottee are such that the entire proceeds will not be immediately required, the land is offered for sale on the deferred payment plan. The title to the land sold passes to the purchaser by deed from the allottee, the deferred payments being evidenced by the purchaser's notes drawing 6 per cent interest, secured by first mortgage on the land conveyed.

In none of the cases where deferred payment sales have been made has it been necessary to sell the lands secured by mortgage to enforce

the payment of the balance of the consideration.

In many instances an Indian's allotment is located a great distance from where he resides and where he expects to continue his residence. In few cases can the allottee handle the renting of an allotment so located with profit to himself. It is therefore considered advisable to dispose of the allotment, or a part thereof, and with the proceeds purchase a suitable tract for a home in the locality where he wishes to live. Such purchases are made under the direction of the department, and the conveyance is evidenced by a special form of warranty deed, prescribed by the department, which provides for the continuation of the restriction against alienation until April 26, 1931.

In a case where lands were purchased for a home for an allottee under this plan and conveyance made by deed continuing restrictions the allottee attempted to mortgage the premises to secure a loan, and, upon default of payments provided thereunder, the mortgagee instituted foreclosure proceedings. At the instance of the Department of the Interior the Government sought an injunction in the United States Court for the Eastern District of Oklahoma to prevent a sale of the premises under foreclosure proceedings. The application for an injunction was denied, and an appeal was taken to the United States Circuit Court of Appeals, Eighth Circuit, where a decision was recently handed down (United States v. Law) affirming the Government's contention that lands so purchased can not be alienated without the approval of the Secretary of the Interior.

During the fiscal year two competency commissions have spent a part of their time in examining allottees of the Five Civilized Tribes to ascertain those who, by their manner of living and ability, demonstrate that they are capable of handling all transactions affecting their allotments without the assistance of the department. In all

cases where such ability was found, recommendations were made for the removal of restrictions, without condition, from the allottee's remaining restricted lands. The number of removals approved on the recommendation of the competency commissions as compared with removals handled in the usual manner are as follows:

Conditional, land sold	714 162 656
Total of removals.	

The canvass made by the competency commissions has covered the Cherokee, Choctaw, and Chickasaw Nations. A portion of the area of the Choctaw and Chickasaw Nations, where the Indian population is heaviest, has been canvassed the second time. The applications received by the competency commission on which recommendations are to be made are filed at this office, docketed, checked with the enrollment and allotment records, checked to ascertain if lands affected are involved in suits to clear title, and checked against the records of outstanding reimbursable agreements. Certificates for the removal of restrictions are then prepared to accompany the reports of the competency commission. Record of the orders of the Secretary of the Interior removing the restrictions and the delivery of the approved orders to the respective applicants are made by this office.

The act of Congress approved May 27, 1908 (35 Stat., p. 312), authorizes restricted Indians to lease their surplus allotments for agricultural and grazing purposes for five years, and their homestead allotments one year, without departmental approval. Such leases are commonly known as commercial leases as distinguished from departmental leases. Such leases, to be valid for periods longer than five and one year, respectively, must be approved by the department. Many restricted Indians under this law lease their lands for grossly inadequate considerations and the department frequently finds itself unable to render assistance and estopped from protecting the interest of the Indian. Instead of encouraging and leading the Indian to live on his allotment, this law results in his being overreached in many instances and in perpetuating an undesirable lease system in eastern Oklahoma, detrimental alike to the Indian and to the community in which he resides.

It is the general rule that surplus allotments adapted to tillage are covered by agricultural leases with unexpired terms varying from one to five years. These leases lower the sale value. Purchasers can not afford to pay the full value for tracts where valid leases preclude possession for a term of years. Frequently the entire rental for the

term of the lease is paid in full.

During the year 1,327 new applications were received and filed, and 176 applications that had been previously denied or dismissed were reinstated, making a total of 1,503 cases available for consideration. There were advertised for sale under conditional removals 1,126 tracts of land, and bids were accepted on 761 tracts (67.6 per cent of the number offered) covering 58,843 acres. The amount of accepted bids was \$805,132.07, and exceeded the appraisement by \$181,929.14.

Since May 27, 1908, there have been filed 16,154 applications for removal of restrictions and the following tables show the action

thereon, the acreage from which the restrictions on alienation have been conditionally and unconditionally removed, also removals for school site purposes under the act of Congress approved May 29, 1908.

Status of cases for period ending June 30, 1918.

			Approved.				24	
Nation.	Pend- ing.	Condi- tional.	Uncondi- tional.	School site.	Can- celed.	De- nied.	Dis- missed.	Total.
Choctaw Chickasaw Cherokee Creek Mississippi Choctaw Seminole	24 2 52 45 48 15	2,690 531 2,304 924 418 81	1,440 657 1,792 312 49 20	75 19 41 46 6	214 29 128 50 30 5	435 150 820 383 21 15	827 224 703 465 78 88	5, 705 1, 612 5, 840 2, 175 645 177
Total	181	6, 948	4,270	190	456	1,774	2, 885	16, 154

Acreage from which restriction has been removed by the Secretary of the Interior.

[Acts of May 27 and 29, 1908.]

Nation	Conditional (land sold).	Uncondi- tional.	School site	Total.
Chootaw Chickneaw Cherokee Creek Mississippi Choctaw Saminole	45, 797, 98	174, 012. 16 79, 381. 13 88, 508. 18 16, 291. 42 3, 223. 04 668. 59	109.57 88.50 42.85 50.00 4.00 15.17	405, 748. 80 114, 676. 77 175, 601. 94 62, 139. 40 39, 081. 28 4, 273. 94
Total	444, 177. 52	357, 084. 52	260.09	801, 522. 13

Conditional removals of restrictions—Sales made under departmental supervision to June 30, 1918.

	Te	June 30,	1917.	For fiscal year ending June 30, 1		
Nation.	Area (acres).	A verage price per acre.	Amount received.	Area (acres).	Average price per acre	Amount received
Choctaw Chickneaw Cherokee Creek Seminole	238, 532. 65 33, 54 i. 34 78, 019. 96 115, 304. 97 2, 984. 35	\$8.08 11.93 10.74 17.22 12.94	\$1, 927, 893. 07 400, 350. 22 838, 181. 47 1, 985, 762. 14 38, 630. 56	28, 741. 42 1, 701. 28 14, 049. 39 3, 610. 40 643. 25	\$11.58 20.56 10.72 35.74 21.66	\$331, 618. 04 34, 977. 37 150, 728. 37 129, 044. 54 13, 933. 32
Total	468, 386. 27	11.08	5, 190, 817. 46	48, 745. 74	18.54	660, 301. 64

Allotted land from which restrictions have been removed to June 30, 1918.

Nation.	Act of July 1, 1902.	Act of Apr. 21, 1904.	By oper- ation of law, Aug. 8, 1907.	Act of May 27, 1908.	Act of May 29, 1908.	Town site re- movals, act Mar. 3, 1903.	Total.
Choctaw	Acres. 229, 600 207, 700	Acres. 317, 400 299, 000 313, 500 549, 480	A cres.	Acres. 3,380,710 2,698,778 3,141,642 1,041,495	Acres. 114 38 43 50 15	Acres. 3, 515 1, 187 3, 086 6, 849	A cres. 3, 931, 339 8, 201, 698 3, 458, 221 2, 035, 684
Total	510, 410	1,523,380	364, 680	154, 259	260	14, 587	196, 274

Removal of restrictions by the Secretary of the Interior, Five Civilized Tribes.

		íay 27, 1908.	Act of May 29, 1908.			
Fiscal year.	Num- ber of tracts.	Acreage.	Num- ber of tracts.	Acreege.	Total.	
1900 1910 1911 1912 1912 1914 1914 1915 1916	652 956 1,106 786 697	52, 761. 09 88, 070. 34 34, 679. 34 45, 075. 51 60, 532. 64 81, 034. 72 50, 077. 38 42, 108. 80 155, 403. 17 141, 524. 30	9 41 18 27 27 15 16 5	12. 50 56. 54 26. 00 24. 42 54. 61 26. 50 25. 67 6. 68 25. 22 2. 00	52, 778. 59 88, 126. 88 84, 705. 34 45, 099. 98 60, 587. 25 81, 061. 22 50, 103. 00 42, 110. 23 155, 428. 39 141, 526. 30	
Total	12, 455	751, 262. 04	173	260.09	751, 522. 12	

Comparative statement of sales consummated under conditional removals.

Fiscal year ended June 30—	Tracts sold.	Acres sold.	Consideration received.
909. 910. 911. 913. 913. 914. 915.	150 629 871 504 735 934 624 550 530	10, 924. 21 53, 192. 75 67, 790. 47 88, 277. 39 51, 817. 89 66, 104. 33 41, 531. 52 83, 017. 65 82, 775. 62	\$149, 422. 20 566, 666. 57 674, 720. 71 316, 033. 66 502, 408. 36 636, 042. 82 430, 320. 94 360, 422. 21 407, 569. 96
Total	714 6, 251	48, 745. 74	660, 301. 6 4, 702, 917. 0

Status of cases of conditional removals, June 30, 1918. Authorized:

Cases where land partly or all sold	8, 251
Pending sales.	226
Cases where land is unsold	286
Cases where land withdrawn from sale on account of clouded titles, request of allottees, or long-time leases	185
Total	8, 948

Status of inherited land cases for fiscal year ending June 30, 1918.

Number of cases filed:	
Approved	. 674
Disapproved	
Dismissed	
Pending in this office or returned to field clerk	. 278
Pending in department	. 10

Total	1 917
10641	1. 31/

	Pending in—					
Nation.	Agency.	Depart- ment.	Ap- proved.	Disap- proved.	Dis- missed.	Total.
Choctaw Chickasaw	46 12 29	8	141 87	2	121 16	313 65
Cherokee Creek Missisppi Choctaw Seminole	174	4	83 388 19	6	59 183 13	173 705 45 1,317
Total	278	10	674	9	346	1,817

During the year, little progress was made in disposing of pending petitions for the approval of inherited land deeds for the reason that petitioners failed to complete petitions. Nothing was done looking to the disposition of what are known as Benjamin Harrison cases, due to the fact that the question whether lands selected subsequent to the death of the citizen entitled passed to the heirs as an inherited or as an original allotment had not been definitely determined by the court of last resort.

LEASE DIVISION.

The following tables show the disposition of all leases heretofore filed with this office:

LEASES FILED.

Oil and gas. Coal and asphalt. Miscellaneous. Arricultural	37, 169 501 304 2, 962
Total	
DISPOSITION OF LEASES FILED.	
Approved and in effect:	
Oil and gas	6, 327
Coal and asphalt	93
Miscellaneous	93
Agricultural	1, 495
Total	8 008
10Wax	0,000
Surrendered or canceled by department:	
Oil and gas.	15, 939
Coal and asphalt	156
Miscellaneous	37
Agricultural	152
Total	16, 284
Canceled by agreement:	
Oil and gas	226
Coal and asphalt	4
Total	
Expired:	-00
Oil and gas.	689
Coal and asphalt	15
Miscellaneous	2 314
Total	1,020
Removed from departmental supervision after approval:	
Oil and gas	5, 054
Coal and asphalt	0, 004 84
Miscellaneous	13
Agricultural	166
Total	5, 317

Withdrawn or disapproved by department:	
Oil and gas	7, 979
Coal and asphalt.	97
Miscellaneous	108
Agricultural	72 9
Total	8, 907
Canceled for failure to refile:	
Oil and gas	537
Coal and asphalt.	39
Miscellaneous	12
Agricultural	23
Total	611
AV984	011
Returned to lessee, no jurisdiction:	
Oil and gas	143
Coal and asphalt	5
Miscellaneous	7
Agricultural	88
·	
Total	193
The 21's at 1 s 4 s	
Pending at department:	01
Oil and gas Coal and sephalt.	81
Miscellaneous.	6 13
,misconsucous	10
Total	100
Pending in this office::	
Oil and gas	174
Coal and asphalt	2
Miscellaneous	19
Agricultural	71
m1	
Total	266
Total leases filed	40 936
100m 100m 100m 1100m	20, 000
Pending in this office June 30, 1917	309
Filed during year ended June 30, 1918	1, 450
Total	1, 759
- · · · · · · · · · · · · · · · · · · ·	
Leases forwarded for approval or disapproval	1, 480
Leases forwarded for approval or disapproval. Leases returned, no jurisdiction. Leases pending in this office, June 30, 1918.	13
LAGGO TANGING IN THE ATRAC JUNG SULLVIX	266
reads policing in with onice, while ou, 1010	
	1 750
Total	1, 759
Total	1, 759
Total	1, 759
Total Assignments Assignments pending June 30, 1917.	340
Total	340
Total. Assignments pending June 30, 1917. Assignments filed during year ended June 30, 1918.	340 1, 078
Total Assignments Assignments pending June 30, 1917.	340
Total. Assignments pending June 30, 1917. Assignments filed during year ended June 30, 1918. Total.	340 1, 078 1, 418
Total. Assignments pending June 30, 1917. Assignments filed during year ended June 30, 1918. Total.	340 1, 078 1, 418
Assignments pending June 30, 1917. Assignments filed during year ended June 30, 1918. Total Assignments forwarded department. Agricultural assignments acted upon by superintendent	340 1, 078 1, 418 1, 161 16
Assignments pending June 30, 1917. Assignments filed during year ended June 30, 1918. Total. Assignments forwarded department. Agricultural assignments acted upon by superintendent. Assignments dismissed or returned, no jurisdiction.	340 1, 078 1, 418
Assignments pending June 30, 1917. Assignments filed during year ended June 30, 1918. Total. Assignments forwarded department. Agricultural assignments acted upon by superintendent. Assignments dismissed or returned, no jurisdiction.	340 1, 078 1, 418 1, 161 16 80
Assignments pending June 30, 1917. Assignments filed during year ended June 30, 1918. Total. Assignments forwarded department. Agricultural assignments acted upon by superintendent. Assignments dismissed or returned, no jurisdiction.	340 1, 078 1, 418 1, 161 16
Total. Assignments pending June 30, 1917. Assignments filed during year ended June 30, 1918. Total. Assignments forwarded department. Agricultural assignments acted upon by superintendent. Assignments dismissed or returned, no jurisdiction. Total.	340 1, 078 1, 418 1, 161 16 80 1, 257

The number of oil and gas leases filed during the past year has been less than during the two or three preceding years, due largely to extensive oil fields having been discovered in Kansas and Texas. During the past few months uncertain conditions, particularly the scarcity of labor and material, have affected leasing to some extent. Since July 1, 1917, there have been filed with the office of the Superintendent for the Five Civilized Tribes, 1,450 leases and 1,078 assignments of leases.

On February 21, 1918, the department issued an order requiring the drilling of a well on each and every tract of land leased for oil and gas mining purposes, within nine months from date of approval of the lease, unless it is demonstrated that casing or other well equipment can not be obtained. This order brought forth a great many protests from lessees. The usual procedure in leasing unproven, or what is known as "wildcat" territory, is to secure a number of leases, and to drill from one to three test wells, and in the event oil is found in paying quantities by the test, other wells are then drilled, but the lessees contend that it will not be possible to drill a well within nine months on each tract of a block of leases.

Within the past year 124 new corporations have acquired or made application for the approval of leases or assignments. This is an unusually large number of new companies, and as many of them were unfamiliar with departmental regulations, a great deal of time was taken to explain to them the requirements necessary for the comple-

tion of their general papers.

In order that it may be determined at any time whether a person is interested in oil and gas leases in excess of the acreage permitted by the regulations, each stockholder in a corporation is required to furnish a personal affidavit showing the stock held by him in corporations holding leases on lands in the Five Civilized Tribes for oil and gas mining purposes. There have been 16,526 such affidavits filed within the year, each of which has been numbered and made a matter of record, requiring a large amount of clerical work.

Only 16 leases for mining coal and asphalt on allotted lands were filed for consideration during the year. It is generally understood that many tracts of allotted land are underlaid with coal, but these are not being developed to any great extent. It is believed, however, that increased activity in leasing lands for coal mining purposes

may be expected in the near future.

A total of 76 miscellaneous leases were filed for lead, zinc, and other minerals, and surface sites for tanks, pump stations, refineries, water rights, etc. On December 6, 1917, the department modified the form for leases for minerals other than oil and gas and coal and asphalt, to provide, in lieu of advanced annual royalty, a rental of 50 cents per acre for the first year, 75 cents for the second year, and \$1 for the third and each succeeding year, retaining the provision for development within one year of approval, the lease to be made for 10 years and as much longer as minerals are found in paying quantities. These changes are greatly to the advantage of the lessor, and as the requirements are clearer, the new form is more satisfactory to both the department and the public.

Four hundred and thirty-one agricultural and grazing leases were filed as against 243 in the preceding year. The large increase in the number filed is due to the fact that the field clerks have been instrumental in securing more adequate rentals for allottees than they have been receiving for commercial leases. For this reason, also, less difficulty has been experienced in the collection of rentals, and in securing completion of improvements under the terms of the leases.

While the number of assignments filed was less than during the preceding year, the work in disposing of same was not materially decreased, for the reason that many of the assignments were in favor of the larger companies, having extensive acreage and stock ownership.

PIPE LINES.

Easements for pipe lines, telephone and telegraph lines, pump stations, and tank sites, for fiscal year ended June 30, 1918:

Applications filed to and including June 30, 1917	304 44
Total	-
Applications approved or withdrawn to and including June 30, 1917	40 11 3 15
Applications filed during year: For pipe line rights of way.	34
For pipe line rights of way. For telephone and telegraph rights of way. For pump station sites.	8 2
Total ·	44

The four most important applications filed during the year were for pipe line rights of way connecting the Healdton oil field with the State of Texas; two of which run from the State of Texas through the Healdton oil field to the Cushing oil field. These lines will be of great value to the Healdton field, where the pipe line facilities have heretofore been inadequate. The majority of the remaining applications were for lines of no great length but lines connecting producing fields with trunk lines, refineries, or markets for natural gas, and are of material value in increasing the marketing facilities for both oil and natural gas.

SEGREGATED COAL LEASES.

The act of June 28, 1898 (30 Stat., 495), authorized the leasing of the segregated coal and asphalt lands in the Choctaw and Chickasaw Nations, and under said act there were in force on June 30, 1914, 109 coal leases covering 99,800 acres of segregated coal lands. The act of March 4, 1913 (37 Stat. L., 1007), authorized the Secretary of the Interior in cases where additional acreage is required by lessees for the successful operation of mines to lease to such lessees additional adjoining acreage not exceeding 640 acres. Applications filed for additional acreage under this act are investigated as to the necessity for the acreage and the ability of the applicant to operate the property.

If the investigation is favorable and the Secretary approves, the Mining Trustees and the applicant are authorized to execute a lease covering the land, subject to the approval of the Secretary of the Interior.

Applications	filed for	additional	acreage und	er act of	Mar.	4, 1918.
--------------	-----------	------------	-------------	-----------	------	----------

Applications filed to and including June 30, 1917	4 0 10
Total	50
Applications approved by the Secretary of the Interior Applications withdrawn Applications denied Applications pending June 30, 1918	29 5 3 13
Total	50

In the 29 cases where applications have been approved, 14 new leases and 9 contracts adding additional acreage to existing leases have been approved by the Secretary of the Interior. The total additional acreage leased in these 23 cases amounts to 10,338.08 acres. In the remaining 6 cases, the Mining Trustees and the applicants have been instructed to submit contracts, two of which have been filed and are pending at the department.

Of the 13 pending applications, 9 are awaiting investigation and report of the Mining Trustees and the Bureau of Mines, and 4 are awaiting additional information from the applicants, all of whom have been advised that in view of the proposed sale of the segregated coal and asphalt deposits under the act of February 8, 1918, it is believed additional acreage should be granted only in those cases where the additional acreage is necessary to continue the operations of the mines.

Segregated asphalt leases.

Leases acquired under act of June 28, 1908, in force on June 30, 1917	В
Leases canceled by department during year ended June 30, 1918	ı
Leases in force on June 30, 1918	5
Assignment approved during year: Lessee, James S. Downard; assignee, Whitaket	r

Assignment approved during year: Lessee, James S. Downard; assignee, Whitaker Brodnax.

Rental agricultural and grazing tribal lands.

Segregated treets rented in Charter Chickesen Nations	961
Segregated tracts rented in Choctaw-Chickasaw Nations. Tracts unallotted lands in Choctaw-Chickasaw Nations.	001 4
Tracts tribal land:	•
Creek Nation.	21
Seminole Nation	2

Total tracts tribal land rented....

These tracts vary in size from small town lots to average size farms, and are rented subject to the disposition of the land at the next advertised sale. The rental received varies according to the value of the land for grazing, meadow, or agricultural purposes. A statement of the amounts received from this source appears under the head of "Royalty."

ROYALTY DIVISION.

The royalty division opens accounts with individual lessors for all classes of departmental leases, and keeps a record of receipts and disbursements thereon, as well as on tribal leases.

Oil and gas leases are classed as nonproducing and producing, on which royalty is paid. Payments on nonproducing leases depend upon acreage and age of lease. Payments on producing leases de-

pend upon production and sale.

Remittances are made direct to this office by lessees while a lease is nonproductive. After production is secured, the purchaser of oil secures a division order, under authority of which he is required to submit a sworn report, showing gross production, sale price, and period during which oil is run. Lessees submit sworn reports in such cases every three months, which are checked against the purchasers' reports for errors and discrepancies.

Open accounts and classifications.

Open accounts, June 30, 1917		10, 974
Producing accounts, June 30, 1918.	414	•
Nonproducing accounts	945	
Agricultural accounts.	285	
Leases canceled (bond held)	130	•
Tribal coal lease accounts	129	
Tentative leases	62	
Pipe line accounts.	818	
Old blanket lease accounts		
		10, 618
Decrease	-	356

The increased demand for oil has resulted in higher prices for every grade of oil in the various Oklahoma fields. Range of prices is shown below. As noted in the last annual report oil purchasers in some cases objected to meeting the highest prices paid in a particular field, claiming that the purchasers posting and paying the higher prices were unable to take all oil offered, and, therefore, other parties should not be required to pay the higher price quoted, but should be allowed to settle at the price for which oil was actually sold. Full information in this case was forwarded to the department, and on May 16, 1918, the Secretary held that the basis of the highest price posted at any particular time by a responsible purchaser should be considered the market price at that time in that particular field. Nearly all the lessees whose leases were affected have paid the balance due in accordance with the ruling of the Secretary.

Individual lease accounts, by nations.

Nation.	Nonpro- ducing.	Producing.	Agricul- tural, hay- cutting, miscel- laneous.	Coal and asphalt,	Leases canceled, bond held.	Total.
Cherokee. Creek. Choctaw-Chickasaw. Seminole.	1,017 4,069 1,447 412	779 579 58	465 820 455 45	33 56 31	27 70 24 9	2,321 5,094 2,013 466
Total	6, 945	· 1,414	1,285	120	130	9, 894

Individual lease accounts, by nations—Continued.

Nation.	Nonprod ing scree			lucing sage.	Agri tural, cutt mis lane acre	hay- ing, cel- ous	Coal and asphalt acreage.	Total.	
Cherokee Creek Creek Choctaw-Chickasaw. Seminole	68,3 497,3 106,5	14 08 14 46		044.01 878.82 982.33	2 1' 5	7,777 7,168 8,521 2,586	8,225 4,629 4,820	145, 380. 01 579, 478. 82 175, 287. 33 41, 432. 00	
Total	706, 9		117,	855. 16	10	8,052	12, 174	941, 558. 16	
•							Oil		
Nation.	•	Les	1308.	Ac	red.	В	arreis.	Value.	
Cherokee			779 579 56	51,044.01 2, 60,378.82 8, 5,932.33 2,		2,0 8,4 2,1	977, 647. 97 192, 760. 94 570, 064. 77	\$522, 874. 69 2, 225, 025. 41 394, 291. 25	
Total		1,	414	117,	355. 16	13,	140, 463. 68	8, 142, 191. 29	
* NAME:	Gas.			Coal.			Glas	s sand.	
Nation.	Crass.		To	ns.	Val	ue.	Tons.	Value.	
Cherokee	\$39, 154. 0 113, 450. 1 10, 804. 4	6 1 7	241, 26,	819. 51 921. 41 966. 82	29, 7 2, 0	88. 90 72. 24 90. 90	1,747.98	\$302.59	
Total	163, 408. 6	4	268,	197.74	31,9	17.04	1,747.98	302.50	
Changes of prices i	n Mid-Co d-contin				Heald	ton fi	elde.		
Name of purchaser and date of po Sinclair Oil & Gas Co., Aug. 2 Prairie Oil & Gas Co., Aug. 15 Prairie Oil & Gas Co., Aug. 18 Sinclair Oil & Gas Co., Mar. 1 Prairie Oil & Gas Co., Mar. 19	2, 1917 5, 1917 8, 1917 18, 1918	• • • • • • • •	• • • •	• • • • • • • • • •	 	• • • • •	· · · · · · · · · · · · · · · · · · ·	\$1. 85 1. 90 2. 00 2. 25 2. 25	
	HBALDTO	n F	IEL	D.					
Name of purchaser and date of pos Magnolia Petroleum Co.— Aug. 1, 1917		• • • •	•••	• • • • • •	 	• • • • •	· • • • • • • • • • • • • • • • • • • •	\$1. 00 1. 10 1. 15 1. 20 1. 45	
Name of muschases and data of more	CUSHING		ELD	•					
Name of purchaser and date of pos The Texas Co.— Aug. 15, 1917	••••••	 						\$2. 15 2. 25 2. 50	

LEASES, CANCELLATIONS, AND CLAIMS.

Leases canceled, in whole or in part	\$1, 490 130
Percentage of delinquency. Leases canceled and delinquent preceding year. Percentage of delinquency preceding year.	8. 7 35 6. 7
PENDING CLAIMS, OLD AND NEW. Canceled leases:	
No bondPersonal surety	\$1,087.00 7,526.00
Surety bouds	15, 140. 06
Total claims	23, 753. 06
Of this amount there is pending from last year:	
Federal Union Surety Co. (judgment has been obtained) Equitable Surety Co. (now liquidating) Illinois Surety Co. (receivership) Personal surety (95 per cent agricultural leases) No bond (all agricultural leases)	3, 391, 00
Total old claims	16, 213. 00 7, 193. 00
Total claims	23, 406. 00

In canceling leases, the requirement that all necessary papers and payments be in the superintendent's office on or before the due date has been modified by a decision of the United States district court, which held that when papers and payments are deposited in the post office in time to reach the office of the superintendent on or before the due date, such deposit constitutes compliance with the abovementioned rule.

In cases where lessees have been called for military service and are unable to complete application for cancellation, as prescribed by the rules, the usual regulations have been waived and leases canceled without further liability.

The form of agricultural leases has been changed, making rental payable to the Superintendent for the Five Civilized Tribes instead of to the lessor. It is betieved this change will facilitate collection

of rental by this office.

On August 10, 1917, the Secretary approved special regulations, covering the production and sale of casing-head gas, authorizing the Superintendent for the Five Civilized Tribes to approve such contracts made in accordance with the regulations. The Secretary has since authorized departure from the regulations when lessees of restricted leases manufacture gasoline from the gas produced on their leases; payment to be made on the basis of plant production and the selling price of the gasoline.

INCOME TAX.

Only a part of the United States Treasury reports, showing income tax to be paid by individual Indians has been received. It is, therefore, not possible to complete this report. One restricted Indian paid \$114,882 income tax for the year 1917.

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Receipts and disbursements oil, gas, and other individual royalties from 1904 to 1918.

Fiscal year.	Receipts.	Disburse- ments.	Fiscal year.	Receipts.	Disburse- ments.
1904 1905 1906 1907 1908 1909 1909 1910 1911	91, 634. 40 323, 555. 40 775, 489. 15 1, 692, 627. 55 1, 813, 460. 28 1, 420, 894. 97	\$61, 931.38 339, 279.01 679, 347.45 1, 685, 675.26 1, 802, 893.20 1, 301, 508.99 1, 191, 997.18 1, 123, 864.08	1913	3, 996, 426. 68 4, 431, 645. 53 4, 676, 628. 15	\$1, 201, 362, 09 1, 520, 198, 32 1, 195, 222, 72 1, 266, 216, 91 2, 377, 159, 58 7, 637, 771, 20
Acreage embrace Coal leases acquin Acreage embrace Number of asphal Tons of coal mine Tons of coal mine Advance royalty and Advance royalty	ded under sc d	t of Mar. 4, 1 cal year ceeding year on production on production	1898	g year	103, 302, 66 15, 355, 42 5, 3, 227, 595 2, 874, 809 \$276, 186, 83 \$238, 288, 49 \$2, 500, 00
	Segre	gated and und	illotted land rentals.		
Number of leases Rentals paid Miscellaneous tril		•••••			888 \$17, 632. 12 \$4, 850, 86

CASHIER'S DIVISION.

While total receipts and disbursements were less than for the fiscal year 1917, on account of smaller per capita payments, although the same number of persons were paid, still the volume of business handled by this division was greater than during any previous year.

A very important and beneficial change in the manner of accounting for individual Indian money was effected during the year. Formerly a checking balance in the United States Treasury for royalty money only was kept, but nine-tenths of this royalty money was placed in banks to the credit of individual Indians and each account kept separate. Other individual Indian money derived from land sales and transferred from per capita and equalization payments was also kept in banks on individual accounts besides keeping the moneys separate as to their source. The constantly increasing number of these accounts had caused the making of the quarterly pay rolls such a task that practically one-half the time the daily work in connection with receiving and disbursing individual money was handicapped. This condition naturally caused a great many delays that became more and more exasperating with the rapidly growing number of accounts.

Upon request, two expert accountants of the Bureau of Efficiency spent several months analyzing the old system and substituting labor and time saving methods and devices. Under the new system the individual accounts are divided into three sections—the lease royalties on accrued rentals, lease royalties on productions and all other individual Indian money. The individual accounts in the banks have been abolished and the rendering by the banks and checking by this office of these individual Indian accounts is thereby done away with

Only one lump sum in the name of the cashier is kept with each bank carrying individual Indian money. All checks are drawn on the Treasurer of the United States with whom an adequate checking balance is maintained. The banks are paying 3 and 4 per cent interest on the amounts deposited, and are drawn on only to replenish the Treasury balance.

The handling of the individual accounts (approximately 14,000) has been facilitated by the installation of up-to-date check writing and bookkeeping machines. The check writing machine writes the checks, makes the check register, and distributes the amounts among the various classes of disbursements. The posting of the accounts on the bookkeeping machine prepares at the same time the copies of statements that are submitted to the department, thereby avoiding the making up of many voluminous pay rolls at the end of the quarter. All the entries of one day are assembled the next morning and the balance established on all funds. The value of the new system was demonstrated at the close of the fourth quarter, when in two weeks the accounts were ready for transmission, while in previous years it required from 30 to 60 days. Our appreciation of this change will always be an expression of sincere gratitude to the Bureau of Efficiency.

The individual Indian moneys were deposited in 180 national banks of several States as follows:

. State.	Number of banks.	Amount de- posited.
Oklahoma Iowa. Texas Nebraska	10	\$3,617,522.71 1,430,660.00 793,330.00 253,650.00 297,500.00 164,300.00
Arkansas. Kansas		
Total	180	6, 556, 962. 71

The banks are paying 3 to 4½ per cent on these deposits. The interest has heretofore been credited to the accounts of the Indians, whose moneys were deposited in banks, leaving those whose funds were kept in the Treasury without any interest. From April 1, 1918, all Indians' accounts are participating equally in the distribution of the interest, which resulted in crediting same at the rate of 3.38 per cent on June 30.

The total funds are deposited in State and national banks of Oklahoma and show a distribution by tribes as follows:

Choctaw Chickasaw Creek. Cherokee	691, 040. 52 929, 725. 10 25, 900, 00
Total	

The following is a complete statement in detail showing receipts and disbursements for the fiscal year ending June 30, 1918:

Receipts

Tribal collections:			
Choctaw-Chickasaw Nations—	Choctaw.	Chicknessw.	
Coal royalties	\$230, 175. 33	\$ 76, 725. 1 2	
Asphalt royalties	1, 500. 00	500.00	
Rental on tribal lands	13, 886. 36	5, 002. 80	
Sale of unallotted lands	1, 560, 918. 82	540, 305. 88	
Sale of timber lands	584, 821. 79	194, 940. 60	
Sale of surface of someonted and	001, 021. 18	192, 330. 00	
Sale of surface of segregated coal	400 050 10	100 050 50	
and asphalt lands	499, 952. 12	166, 650. 72	•
Sale of improvements on tribal			
lands	5, 549. 68	1, 849. 90	
Sale of town lots	439. 03	146. 33	
Sale of townsite maps	•••••	7. 25	
Timber unlawfully cut	33. 19	11.06	
Judgment against telephone			
company	26. 36	8. 79	
Sale of Lebanon Academy land,			
part payment	210. 94	70. 31	
Interest on deferred never ente			
Interest on deferred payments.	37. 22	12. 40	
Sale of Lebanon Academy, im-		***	
provements, part payment			,
Interest on deferred payment	• • • • • • • • • • • • • • • • • • • •	40. 38	
Right of way across Jones Male			•
Academy	50.00.		
-	0.005.000.04		
	2, 897, 600. 84	986, 490. 29	
			\$3, 884, 091. 13
Creek Nation—		Creek.	
Rental on tribal lands		378. 50	
Sale of unallotted lands	•••••	22, 360. 10	
Sale of town lots		799. 00	
Sale of Tallahassee Mission,			
part payment		1, 283. 85	
Interest on deferred payments		231. 07	
into the on deterior payments		201.07	25, 052. 52
Seminole Nation—	_	Seminole.	20, 002.02
Rental on tribal lands			•
rental on tribal lands			
0-1611 -44 - 3 1 3 -	• • • • • • • • • • • • • • • • • • • •	761.00	
Sale of unallotted lands	••••••	761. 00 1, 821. 20	0.500.00
Sale of unallotted lands		761. 00 1, 821. 20	2, 582. 20
Sale of unallotted lands		1, 821. 20	
Sale of unallotted lands Total tribal collections		1, 821. 20	
Sale of unallotted lands Total tribal collections Individual Indian Moneys:		1, 821. 20	
Sale of unallotted lands Total tribal collections Individual Indian Moneys:		1, 821. 20	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases	-	1, 821. 20 Miscellaneous. 4, 450, 631. 88	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases		1, 821. 20 Miscellaneous. 4, 450, 681. 88 34, 417. 04	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases		1, 821. 20 Miscellaneous. 4, 450, 681. 88 34, 417. 04	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases Coal and asphalt leases Agricultural leases Limestone, shale, sand, and grave		1, 821. 20 Miscellaneous. 4, 450, 681. 88 34, 417. 04 44, 792. 20	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases Coal and asphalt leases Agricultural leases Limestone, shale, sand, and grave		1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases Coal and asphalt leases Agricultural leases Limestone, shale, sand, and grave Tank site. water, and other leases	leases	1, 821. 20 Miscellaneous. 4, 450, 681. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases	leases	1, 821. 20 Miscellaneous. 4, 450, 681. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases	leases	1, 821. 20 Miscellaneous. 4, 450, 681. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84	3, 911, 725. 85
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases Coal and asphalt leases Agricultural leases Limestone, shale, sand, and grave Tank site. water, and other leases Lead and zinc leases	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79	
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases Coal and asphalt leases Agricultural leases Limestone, shale, sand, and grave Tank site. water, and other leases Lead and zinc leases	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92	3, 911, 725. 85
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34	3, 911, 725. 85
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34 215, 553. 64	3, 911, 725. 85
Total tribal collections	leases	1, 821. 20 Miscellaneous. 4, 450, 681. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34 215, 553. 64 30, 588. 87	3, 911, 725. 85
Total tribal collections Individual Indian Moneys: Royalties— Oil and gas leases	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34 215, 553. 64	3, 911, 725. 85 4, 676, 628. 15
Total tribal collections	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34 215, 553. 64 30, 588. 87 65, 281. 01	3, 911, 725. 85
Total tribal collections	leases	1, 821. 20 Miscellaneous. 4, 450, 681. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34 215, 553. 64 30, 588. 97 65, 281. 01 503, 505. 60	3, 911, 725. 85 4, 676, 628. 15
Total tribal collections	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34 215, 553. 64 30, 588. 87 65, 281. 01	3, 911, 725. 85 4, 676, 628. 15 935, 252. 86
Total tribal collections	leases	1, 821. 20 Miscellaneous. 4, 450, 681. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34 215, 553. 64 30, 588. 97 65, 281. 01 503, 505. 60	3, 911, 725. 85 4, 676, 628. 15
Total tribal collections	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34 215, 553. 64 30, 588. 87 65, 281. 01 503, 505. 60 5, 306. 60	3, 911, 725. 85 4, 676, 628. 15 935, 252. 86 503, 812. 20
Total tribal collections	leases	1, 821. 20 Miscellaneous. 4, 450, 631. 88 34, 417. 04 44, 792. 20 687. 58 8, 271. 90 954. 84 3, 289. 79 133, 532. 92 623, 824. 34 215, 553. 64 30, 588. 87 65, 281. 01 503, 505. 60 5, 306. 60	3, 911, 725. 85 4, 676, 628. 15 935, 252. 86 503, 812. 20

Miscellaneous:		
Class 1, sale of townsite maps and other Govern-	Miscellaneous.	
ment property	\$611.65	
Choctaw-Chickasaw Hospital, board	111. 60	
		\$ 723. 25
Class IV		• -
Sale of lease blanks	1, 655. 35	
Sale of certified copies and State maps	4, 505. 90	
Filing fees, oil and gas leases, assignments and	-,	
stipulations	10, 307. 00	
stipulations. Pipe line inspection fees.	425. 00	
Sale of property at Collins Institute	951. 60	
Interest on special deposits and individual		
moneys other than bank accounts	53, 533. 91	
moneys owner want bank accounte	00, 000. 01	71, 378. 76
Class I, section S, sale of certified copies of records		11,010.10
	90 440 90	
under section 8, act of Apr. 26, 1906	20, 440. 89	00 440 00
Gleen V		20, 440. 89
Class V—	F 701 00	
Advertising fees on allotted lands	5, 701. 33	F 701 00
	2 422 54	5, 701. 33
Refunds and reimbursements, appropriations.	2,077.50	
Overpayments on advanced royalty	7, 131. 63	
•		9, 209. 13
<u></u>	•	
Total miscellaneous moneys	•••••	107, 453. 36
<u> </u>		
Total		10, 139, 872. 42
Received by Treasury warrants on requisition		6, 035, 648. 3 1
•	-	
Total receipts		16, 175, 520, 73
Balance carried over from previous year:		• •
Congressional appropriation	34, 960. 69	
Tribal funds.	251, 158. 20	
Miscellaneous moneys.	70 000 05	
	18, 269, 85	
Individual Indian Moneys	18, 269. 85 8, 743, 876, 74	
Individual Indian Moneys	8, 743, 876. 74	
Individual Indian Moneys. Outstanding liabilities.	8, 743, 876. 74	9 049 721 90
Individual Indian Moneys	8, 743, 876. 74	9, 049, 721. 90
Individual Indian Moneys. Outstanding liabilities.	8, 743, 876. 74 1, 456. 42	
Individual Indian Moneys	8, 743, 876. 74 1, 456. 42	
Individual Indian Moneys. Outstanding liabilities. Grand total.	8, 743, 876. 74 1, 456. 42	
Individual Indian Moneys. Outstanding liabilities.	8, 743, 876. 74 1, 456. 42	
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements.	8, 743, 876. 74 1, 456. 42	
Individual Indian Moneys. Outstanding liabilities. Grand total.	8, 743, 876. 74 1, 456. 42	
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO	8, 743, 876. 74 1, 456. 42	
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Okla-	8, 743, 876. 74 1, 456. 42	
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917:	8, 743, 876. 74 1, 456. 42	25, 225, 242. 63
Individual Indian Moneys. Outstanding liabilities. Grand total Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses.	8, 743, 876. 74 1, 456. 42	
Individual Indian Moneys. Outstanding liabilities. Grand total Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahomia Traveling expenses.	8, 743, 876. 74 1, 456. 42	25, 225, 242. 63
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918:	8, 743, 876. 74 1, 456. 42 Ns.	25, 225, 242. 63
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees.	8, 743, 876. 74 1, 456. 42 Ns.	25, 225, 242. 63
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses.	8, 743, 876. 74 1, 456. 42 Ns. \$148, 437. 26 21, 363. 30	25, 225, 242. 63
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks.	8, 743, 876. 74 1, 456. 42 Ns. \$148, 437. 26 21, 363. 30 4, 025. 50	25, 225, 242. 63
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses.	8, 743, 876. 74 1, 456. 42 Ns. \$148, 437. 26 21, 363. 30	25, 225, 242. 63 \$640. 93
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber. 1917:	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09	25, 225, 242. 63
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber. 1917:	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09	25, 225, 242. 63 \$640. 93
Individual Indian Moneys. Outstanding liabilities. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09	25, 225, 242. 63 \$640. 93
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918:	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives. Traveling expenses of farmers.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09 12, 741. 68 5, 867. 00 5, 104. 43	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives. Traveling expenses of farmers. Traveling expenses, account health drive.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09 12, 741. 68 5, 867. 00 5, 104. 43 3, 739. 91	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives. Traveling expenses of farmers. Traveling expenses, account health drive. Sundry purchases and expense.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09 12, 741. 68 5, 867. 00 5, 104. 43	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives. Traveling expenses of farmers. Traveling expenses, account health drive.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09 12, 741. 68 5, 867. 00 5, 104. 43 3, 739. 91	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives. Traveling expenses of farmers. Traveling expenses, account health drive. Sundry purchases and expense.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09 12, 741. 68 5, 867. 00 5, 104. 43 3, 739. 91	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives. Traveling expenses of farmers. Traveling expenses and expense. Probate Attorneys, Five Civilized Tribes, 1917: Traveling expenses.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09 12, 741. 68 5, 867. 00 5, 104. 43 3, 739. 91 454. 30	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives. Traveling expenses of farmers. Traveling expenses and expense. Probate Attorneys, Five Civilized Tribes, 1917: Traveling expenses. Office rents.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09 12, 741. 68 5, 867. 00 5, 104. 43 3, 739. 91 454. 30	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20
Individual Indian Moneys. Outstanding liabilities. Grand total. Disbursements. CONGRESSIONAL APPROPRIATIO Administration of Affairs, Five Civilized Tribes, Oklahoma, 1917: Traveling expenses. Administration of Affairs, Five Civilized Tribes, Oklahoma, 1918: Salaries of regular employees. Traveling expenses. Office rents of field clerks. Purchases and sundry expenses. Industrial Work and Care of Timber, 1917: Sundry purchases and expenses. Industrial Work and Care of Timber, 1918: Salaries of regular employees, farmers. Salaries of temporary employees, account of health drives. Traveling expenses of farmers. Traveling expenses and expense. Probate Attorneys, Five Civilized Tribes, 1917: Traveling expenses.	\$148, 437. 26 21, 363. 30 4, 025. 50 3, 895. 09 12, 741. 68 5, 867. 00 5, 104. 43 3, 739. 91 454. 30 331. 74 22. 00	25, 225, 242. 63 \$640. 93 177, 721. 15 274. 20

Probate Attorneys, Five Civilized Tribes, 1918:	•
Salaries of regular employees. \$63,708.14 Traveling expenses. 5,736.88	
Traveling expenses	
Sundry purchases and expenses	\$ 75, 865. 03
Oil and Gas Inspector, Five Civilized Tribes, 1917: Sundry expenses.	23, 31
Oil and Gas Inspector, Five Civilized Tribes, 1918:	20,01
Salaries of regular employees 4 405 00	
Traveling expenses	
Sundry purchases and expenses	7, 700. 00
Indian Schools, Five Civilized Tribes, 1917: Payments for aid of district schools in eastern Okla-	
homa	15, 558. 60
Salaries of regular employees	
Traveling expenses	
Sundry purchases and expenses	
Payments in aid of district schools in eastern Okla-	
homa	101 671 09
Pay of Indian Police, 1917:	191, 671. 93
Miscellaneous purchases	5. 94
Pay of Indian Police, 1918:	
Salary of regular employees. 7,735.00 Miscellaneous purchases. 92.44	
	7, 827. 44
Relieving Distress and Prevention of Diseases Among	
Indians, 1918: Relief of sick and indigent Indians	1 000 71
Relieving Distress and Prevention of Diseases Among	1, 086. 71
Indians, 1917-18 (Choctaw-Chickasaw Hospital):	
Indians, 1917–18 (Choctaw-Chickasaw Hospital): Salary of regular employees	
outly purchase and expenses	829. 14
Increase of Compensation, Indian Service, 1918	16, 468. 51
Industry Among Indians, 1916–17: Purchase of seeds for distribution to Indians	183. 05
Industry Among Indians, 1917–18:	
Purchase of seeds for distribution to Indians	9, 852. 46
·	
Total disbursed from congressional appropriations	534, 300. 63
TRIBAL FUNDS.	
Tribal officers, salaries and expenses	21, 831. 60
Tribal attorneys, under contract, salaries and expenses	16, 725. 91
Refunds and expenses, account sale of tribal lands and	00 484 69
collection of revenues.	33, 474. 67 19, 681. 80
Expenses per capita and equalization payments	3, 204, 074. 98
Payments in lieu of allotments	27, 102. 49
Expenses and repairs of tribal schools and other tribal	A 405 EA
property	6, 485. 50
Total disbursed from tribal funds	3, 329, 376. 95
INDIVIDUAL INDIAN AND MISCELLANEOUS MONEYS.	
Lease royalties:	
Paid to Indians	
Purchase of War Savings Stamps	
Income tax withheld	_
·	7, 637, 771 . 20

Other Individual Indian Moneys:		
Paid to Indians Purchase of Liberty Loan Bonds	\$ 631, 925. 46	
Purchase of Liberty Loan Bonds	5, 250. 00	
Purchase of War Savings Stamps	208, 640. 40	
_		\$ 845, 815. 86
Overpayments on advanced royalties	• • • • • • • • • • • • • • • • • • • •	9, 559. 71
Miscellaneous Receipts, Class IV:	45 505 05	
Salaries of regular and temporary employees		
Traveling expenses	4, 662. 11	
Purchases, printing, and sundry expenses	32, 069. 96	
Viscellaneous Descints Class V.		78, 253. 08
Miscellaneous Receipts, Class V: Advertising of allotted Indian land sales		9 170 99
Missellaneous Descripts Class I Cortifod Corries See		2, 179. 33
Miscellaneous Receipts, Class I, Certified Copies, Section 8:		
Selezios remuler employees	15 014 78	
Salaries regular employees	9 874 KA	
bundity purchases and exponses	2,011.01	17, 889. 32
		17,000.02
Total Individual Indian and Miscellaneous Moneys	l	8, 591, 468, 50
-		
Total disbursements		12, 455, 146, 08
2000 0000000000000000000000000000000000	;	10, 100, 110, 00
RECAPITULATION OF DISBURSEM	ENTS.	
Congressional Appropriations:		
General office, Five Civilized Tribes	91, 921. 38	
Field service, appraisers, farmers, police, oil in-	·	
spection, etc	157, 769. 64	
School supervision and aid to district schools	207, 230. 53	
Probate work and legal expenses	76, 5 4 9. 94	
Expenses Choctaw-Chickasaw Hospital	829. 14	
		534, 300. 63
Tribal Funds:		
Indian tribal officers and attorneys and expenses	38, 557. 51	
Expenses tribal schools	6, 485. 50	
Tribal payments and expenses	3, 284, 333. 94	
Individual Indian Manage Daid to Indiana	0 445 501 40	3, 329, 376. 95
Individual Indian Moneys Paid to Indians	2, 445, 531. 46	
Government war securities purchased for Indians		
Miscellaneous payments and expenses	107, 881. 44	
-		8, 591, 468. 50
Total actual disbursements	•	12, 455, 148, 09
Deposited Indian moneys to credit Five Civilized		, 100, 110.00
Tribes		
Deposited account sale of Government property	611. 65	
Deposited to reimburse tribal funds	70, 68	
Deposited to reimburse appropriations	3, 534. 73	
Deposited to reimburse miscellaneous receipts	160. 95	
Deposited unexpended balances	1, 364, 102. 98	
_ ·		4, 976, 344. 64
Balances on hand June 30, 1918:		
Congressional appropriations	98, 270. 96	
Tribal funds	1, 314, 999. 07	•
Miscellaneous moneys.	3, 340. 58	
Individual Indian Moneys	5, 869, 196. 68	
Outstanding liabilities	1, 456. 42	
War Savings Stamps held for individual Indians	506, 488. 20	
-		7, 793, 751. 91
Grand total		
(Jeand total		95 995 949 #9

Note.—The amount of money on hand June 30, 1918, pending audit, aggregates \$583,859.09.

Analysis of disbursements of tribal funds.

	Choctaw.	Chick-	Chero- kee.	Creek.	Seminole.	Total.
Salaries and expenses of tribal school employees.	\$1,841.28	\$1,796.18	\$407.19	\$407, 17	\$857.18	\$5,208.90
Expenses of p : capita and equali- sation payments	10, 559. 58	4, 288. 40	ļ	8, 038. 73	1,795.09	19,681.80
schools and hospitals. Expenses account sale of tribal lands	781. 41	243. 84	 			975. 25
and collection of revenue	28, 408, 47 1, 512, 96	7, 801. 26 504. 87		252, 61		31, 457. 34 2, 017. 33
Tribal officers and expenses Tribal attorneys and expenses	5,726.10	8,486.61 6,066.92	75.00	7, 543. 89 10, 668, 99		21, 831. 60 16, 725, 91
Payments in lieu of allotments Per capita payments	4, 661, 43 2, 221, 407, 15	300.00		14,080.66	226, 91 162, 839, 90	28, 315, 02 2, 992, 303, 81
Payments, funds transferred to individual accounts	184, 538. 46	9, 648. 46	286.58	13, 176. 27	7, 908. 92	215, 558. 64
Legal expenses account of town lot suits				201. 35		201. 35
Total	2, 454, 381. 79	644, 745. 14	7, 252. 35	49, 369. 67	173, 628. 00	3, 329, 376. 96

MAIL DIVISION.

The mail division handled 864,935 items of mail, as compared with 880,712 during the fiscal year 1917, classified as follows:

Incoming:			
Departmental letters	6,	842	
Miscellaneous letters	123. (015	
imately	250,	000	
Total			379, 857
Outgoing:			
Departmental letters.	7,	475	
MISCELISTINGUIS LETTETS	152.	bU3	
Circulars, form letters, etc., approximately	325,	000	
Total		•••	485, 078
Grand total.			864, 935

In addition to the above, there were mailed not less than 150,000 advertisements of allotted and unallotted lands, the grand total aggregating approximately 1,000,000 items.

UNITED STATES OIL INSPECTOR.

OIL AND GAS OPERATIONS.

A review of the conditions in the Oklahoma oil fields within the area of the Five Civilized Tribes during the past fiscal year must take into consideration the great and growing interest in the production of oil as a scientific, as well as a business, proposition. Operators in general are coming to realize that deposits of oil and gas are not inexhaustible. Heretofore, relatively speaking, there has been a large supply of crude oil at a low price with no particular attention to methods of conservation. The growing scarcity of high-grade crude oil, compared with the demand for same, and a very substantial increase in the market price, from \$1.70 to \$2.25 per barrel, have forced persons interested in this industry to a recognition of the fact

that every possible means must be employed to save crude oil as well

as all by-products derived therefrom.

The proper setting of casing, cementing off water, checking productivity of individual wells, correct plugging of dry and abandoned wells, and various conservation methods established in other fields are now being adopted in the numerous oil districts of the State as a direct movement toward the saving of crude oil.

As an instance of the latter, a plant is being built to utilize waste oil, such as bad oil in bottoms of steel storage tanks, BS drawn off from gauging tanks, and all nonmerchantable oil that ordinarily accumulates in an oil field, in the manufacture of carbon black. This product heretofore has been considered worthless, but when burned in an insufficient supply of air, a certain amount of carbon black can be obtained, depending upon the efficiency of the process. It is certain, however, that many more important by-products than carbon black, such as dyes and other hydrocarbon chemical compounds useful in industrial operations, can be obtained by the proper treatment of this waste oil.

A tabulation showing development operations within the State, including the area of the Five Civilized Tribes and the Osage Nation, during the past fiscal year, by months, is as follows:

Month.	Oil wells.	Gas wells.	Dry holes.	Total
aly	467	19	91	577
	343	12	79	434
eptember	443	49	153	64.5
Artober	656	43	182	881
November	538	50	156	744
December	412	36	164	612
anuary	286	39	118	442
amary February March	309 · 499	36 57	100 153	44/ 700
April	547	53	184	784
	563	64	162	789
1917–18	5,730	· 102	1,776	1,003
1916-17	4,508	366	895	8, 0 0 5, 75

The above record indicates a steady drilling campaign. A comparison with the records of the last fiscal year is interesting. There was an increase in total number of completions of 2,307, and in this case, it is significant to note that there were almost twice as many dry holes completed in the last fiscal year as in the former year, while there was no great difference in the number of oil and gas wells. The large number of failures may be accounted for in a large measure by the increase in the market price during the present year causing many wildcatters to take a chance in unfavorable localities.

PRODUCTION OF DIFFERENT FIELDS.

The estimated production of the various districts within the area of the Five Civilized Tribes with the total production for the first and last quarter of this year is herewith submitted.

Production estimate from various fields in Five Civilized Tribes, Oklahoma.

District.	First quarter.	Fourth quarter.	District.	First quarter.	Fourth quarter.
Cherokee deep sand; Bird Creek Bartlesville. Collinsville-Vera. Copan-Wann Hogshooter	6, 290	Barrels. 5,000 5,900 500 1,500 180	Creek Nation—Continued. Glenn Pool. Hamilton. Henryetta Kellyville. Lost City.	Barrels. 19,000 980 1,000 400 380	Barrels. 14, 400 290 325 400 170
Cherokee shallow: Nowata. Delaware Chelsea. Inola	15, 475 4, 890 1, 635 2, 120 275	2,800 1,150 1,500 1,350	Morris. Muskogee. Mounds. Perryman Schulter. Haskell-Stone Bluff. Tiger Flats.	3,500 350 1,090 980 320 2,000 2,000	2,700 250 6,050 700 250 1,450 1,650
	8, 920	5, 585	Allen	53, 900 325	47, 210 525
Cushing-Shamrock	57,000 8,000 8,300 5,600	48, 500 6, 680 7, 900 4, 600	Healdton-Fox	60, 000 195, 620	52, 206 167, 105

NEW POOLS.

A general survey of development operations in the area of the Five Civilized Tribes discloses but two new pools, the Youngstown and Yahola districts, neither of which can, in any way, be cited as of particular commercial significance, on account of the relatively small area covered as compared with the Fox, Shamrock, and Cushing fields, their small average daily production, and their rapid decline.

YOUNGSTOWN POOL.

The Youngstown field, as at present developed, is practically inclosed within two sections, 25 and 36, township 14, range 11.

The first well was completed December 5, 1917, on the Huckaby farm in the SE. ‡ SE. ‡, sec. 25, T. 14, R. 11, with rated capacity of 1,500 barrels daily. This well was drilled deeper on March 2, 1918, and produced oil at the rate of 100 barrels per hour for several days. Sand was encountered at about 2,200 feet. Further development was rapid, and at the close of the fiscal year no less than 60 wells have been completed in these two sections.

The initial capacity of new wells decreased rapidly. The total production at this time is about 5,500 barrels daily. A number of failures located in several directions from the present pool indicates that there will be no substantial extension of the field beyond the confines of these two sections.

YAHOLA.

About 5 miles north of the Boynton oil fields the Yahola Pool was opened by completion of an 800-barrel well during the first quarter of the present year. The development at the close of the fiscal year is principally confined to sections 16 and 17, township 15 north, range 16 east. The producing sand is found from 1,250 to 1,350 feet, and drilling conditions are good. At this time, there are about 15 wells completed in these two sections. The Cosden Pipe

Line Co. has extended its facilities to the district so that all of the production will be taken care of. Heretofore this territory has been considered a gas field only, due to the fact that 4 or 5 gas wells, all from 8 to 10 million cubic feet capacity, have been completed in this township.

FOX POOL AND VICINITY.

This territory is not as yet an oil field, but still retains first place as the gas producing area of the State. The northwest-southeast trend of the Fox gas area has been appreciably lengthened, by the recent drilling in of a gas well in section 31, township 2 south, range 3 west, with a capacity of 20 million cubic feet daily. The distance from this well to the northwest extension of the present Fox area is about 6 miles, and therefore probably means the addition of much gas territory to this field.

SHALLOW SAND DEVELOPMENT (VICINITY OF FOX).

The shallow sand development in the vicinity of the western edge of the Fox gas area, sections 13 and 24, township 2 south, range 4 west, is attracting considerable attention at the close of the present fiscal year by reason of discovery of oil at depths ranging from 350 to 1,150 feet. No less than 14 wells have been completed to date in the above sections.

Some of these wells are credited with a daily capacity of 50 barrels, but it is not believed that after they are pumped regularly and the full production is taken by the pipe lines, they will produce more than an average of from 15 to 20 barrels each. The Magnolia Pipe Line Co. will have its lines extended to this district within the next 10 days. This will enable the producers to market their production, and encourage other operators to drill new wells.

DEEPER DRILLING AT HEALDTON.

Considerable interest has been aroused in the discovery of a producing oil sand at a greater depth than the normal producing area of the Healdton field, namely a depth of 2,750 feet in well No. 14, in the northeast corner of section 4, township 4 south, range 3 west, the

Allie Daney allotment.

The sand which is estimated to be 27 feet in thickness is reported to be very hard and close grained. This well was shot September 5, 1917, and is credited with a production of 15 to 20 barrels daily since that time. The oil is 37° to 41° gravity and is a much better grade of crude oil than the ordinary Healdton production. Inasmuch as the lower producing sand is located within the proven area of the field, it would appear reasonable to assume that this producing horizon would cover a large continuous area, but this does not seem to be the case as indicated in a general way by the drilling of scattered tests in sections 11, 16, 18, and 24 of township 4 south, range 3 west, all of which have failed to show a producing sand at lower depths.

However, five producing wells from a sand at a depth of 1,950 feet have been drilled in section 25, township 4 south, range 3 west, and two or three wells have encountered a producing sand at about 1,350 feet in sections 2 and 3 of township 4 south, range 3 west. These producers, however, are surrounded by failures, so that considering

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the present status of deep-sand development, there are no favorable indications that the Healdton field will ever become important as a deep-sand proposition.

PIPE LINES.

During the past fiscal year several notable extensions have been made and are being made to the already elaborate pipeline systems

serving the Mid-Continent field of Oklahoma, as follows:

The Prairie Oil & Gas Co. is laying an 8-inch line, approximately 285 miles in length from Tulsa to the Texas fields. The survey of the line extends through the Healdton field and will give this field additional pipeline facilities, should the company desire to put in the necessary lateral connections.

The Mid-Co Petroleum Co. began active construction work on March 29, 1918, on an 8-inch line from Tulsa to the Billings and Garber producing fields, a distance of about 56 miles. This line is practically completed now and will prove to be a very helpful factor in getting the crude oil produced in that district to market.

The Roxana Petroleum Co. has built and has in operation a 10-inch line from Cushing, Okla., to St. Louis, Mo., at which point a 20,000-

barrel refinery is located ready to begin operations.

During the year the Sinclair Oil & Gas Co. completed and has in operation an 8-inch line connecting its Oklahoma and Kansas productions with Chicago, Ill., where extensive preparations are being made to handle the capacity of the line, both from a refining and distributing standpoint. The Sinclair organization also connected up its Cushing and Healdton productions by an 8-inch line, and is now making a survey to extend this line to the Gulf, tapping the Texas field en route.

The Gulf Pipe-Line Co. has completed a 130-mile extension from Drumright through Yale to their famous Shumway fields in Kansas, near Eldorado.

PIPE LINE FACILITIES.

The purchasing pipe lines and independent agencies taking oil in the Cushing and Healdton fields, together with a number of wells which they serve and the average daily production separated as to the departmental and commercial acreage, according to recent tabulation, are as follows:

	Departmental.		Commercial.		Total.	
Purchaser or pipe line company.	Esti- mated average daily produc- tion.	Number of wells.	Esti- mated average daily produc- tion.	Number of wells.	Esti- mated average daily produc- tion.	Number of wells.
CUSHING FIELD. Magnolia. Empire.	Barrels. 2,789 170	95 11	Barrels. 2,819	191	Barrels. 5,608 170	286 11
Empire Texas Sinclair-Cudahy Pierce Cosden Cosden for Constantine Continental	348	11 130 72 108 20 58	3,471 3,038 2,238 3,235 202 254	127 212 160 216 74 27	3,819 4,495 3,278 5,095 279 1,874	141 342 232 234 94 85

	Depart	mental.	Commercial.		Total.	
Purchaser or pipe line company.	Esti- mated average daily produc- tion.	Number of wells.	Esti- mated average daily produc- tion.	Number of wells.	Esti- mated average daily produc- tion.	Number of wells.
CUSHING FIELD—continued.	Barrels.	48	Barrels. 1,854	146	Barrels. 3,031	194
Hill Oil Co. (not connected)	l	· · · · · · · · · · · · · · · · · · ·			····	
Interstate Refinery	573 650	37 17	1,648 647	64 27	2,221 1,297	101 44
IndiahomaPrairie		97	7.337	873	8, 791	470
C. B. Shaffer		1 12	2,783	189	2,827	201
Sannina Rafinary	636	32	1.291	173	1,927	205
Sapulpa Refinery	552	39	894	70	1.446	109
Uncle Sam	5	2	25	Š	30	10
Yarhola Pipe Line	1.159	35			1,159	35
American Refinery			32	19	32	19
Kingsmith RefineryLake Park Refinery			91	34	91	34
Lake Park Refinery			31	- 6	31	. 6
North American Refinery		1 	173	33	173	33
Oklahoma Pipe Line	-		761	81	761	81
B. W. Scott Refinery			45	9	45	9
Sun Refining Co			15	2	15	2
Webster Refining Co			225	1 10	225	10
Onton Renating Co			225	10	220	10
	15,611	827	. 33,117	2, 252	48,728	8,079
HEALDTON FIELD.						
Magnolia	1,124	32	14.563	511	15.687	548
Empire		80	5,350	201	7.058	281
Texas	510	21	2.682	160	3,192	181
Sinclair-Gulf	250	18	2,180	iii	2,430	129
Fornes	1 70	l	l 		l	J
Carter	l		3,720	103	3,720	103
Pierce		106	3,530	127	4,785	238
C. & A		4	3,311	160	3,447	164
Wilson	927	46		<u>-</u> -	927	46
Nyanza		10	60	1.7	60	150
Roxana		10	6,225 80	149	6,302	159
Fee: Westheimer & Daube			350	22	80 350	22
Pee: Westnemmer or Danne			850		800	
·	6,057	317	42,051	1,560	48, 108	1,877

See Empire.

From the above record, it is noted that the department exercises supervision over about one-eighth of the production of the Healdton field and one-third of the output of the Cushing district. Pipe line facilities of the two fields are far in excess of all requirements, and in consequence there is considerable competition in the purchase of available oil.

This tabulation was compiled as of June 20, 1918, but within the last three weeks there has been considerable change in purchasers, particularly in the Healdton field, where the regular pipe lines are failing to pay premiums and are being deprived of their supply of crude oil.

STORAGE OF OIL.

A close estimate of oil in storage in the Cushing and Healdton fields at the close of the fiscal year was as follows:

Cushing field.

[Amount of oil week ending June 14.]

(Vincense or our Agest senting 2 fine 14")		
Standard group:		
Carter Oil Co	11, 034, 200	
Prairie Oil & Gas Co	9, 762, 200	
Standard of Indiana	3, 114, 785	
Magnolia Petroleum Co	166, 200	
zampiona z ou otomic contribution to the contr	200, 200	24, 077, 385
Miscellaneous refinery group:		21,011,.00
Sinclair Oil & Gas Co	450, 000	
Gulf Pipe Line Co.	2, 867	
Conden Dime Time Co	2,007	
Cosden Pipe Line Co	34, 780	
Pierce Oil Corporation	37, 800	
Indiahoma Refining Co	26, 400	
C. B. Shaffer	464, 073	
The Texas Co	4, 804, 875	
		5, 528, 721
Independent interests:		
Roxana Petroleum Co	30, 450	
Silurian Oil Co.	90, 400	
		120, 850
Miscellaneous		300, 000
MANY-VIAMENT-VIEW-1000000000000000000000000000000000000	• • • • • • • • • • • • • • • • • • • •	550,000
Total		30, 026, 956

Healdton field.

Owner.	Tanks.	Stock.	Owner.	Tanks.	Stock.
Ardmore Refining Co. Carter Oil Co. Do. Cobden Fuel Oil Co. Empire Pipe Line. Gates Oil Co. Gilmer Oil Co. Humble Oil Co. Hamon & Colcord.	8 27 4 1 5 3	15,000 2,548,000 280,000 1,225,000 71,000 237,000 53,000 36,000	Pierce-Fordyce. Roxana Petroleum Co. Rockland Oil Co. Saddle River Sinclair-Guif. Texas Co. Do. Terminal Refining Co. Westheimer & Daube.	24 3 26 19 15	10,000 159,000 1,325,000 876,000 645,000 72,000 51,264 81,000
J. L. Hamon. Magnolia Petroieum Co Pierce-Fordyce	64 7	30,000 3,353,000 83,000	Total	268	11, 110, 264

The supply of oil in storage at Healdton is being constantly drawn upon as the figures show a decrease of approximately 126,000 barrels during the latter half of June. This decrease was considered in the above record. No oil is being run to storage at the close of the fiscal year.

REFINERIES AT HEALDTON.

The growth of the independent refining business in the southern field in the vicinity of Ardmore, Okla., has been one of the noteworthy developments during the past fiscal year. The district is already well supplied with pipe-line facilities, and the entrance of the independent refineries with consequent increased demand for crude oil has stimulated the market for oil in these various fields to an unusual degree as evidenced by the fact that a premium ranging from 20 to 30 cents over the posted market price of \$1.45 is being paid to oil producers who care to sell to these independent concerns. Some of the refineries are well located in the immediate vicinity of the field, and others at Ardmore, there being railroad facilities at both points. Following is the list of refineries in the Healdton field

in operation, and also those under construction, with their estimated capacity:

Company.	Lecation:	Capacity.
Formes Refining Co	Wirt, Okla	Barrels.
WILSON KANNING CO	I	1.00
Ardmore Refining Co	do	6,00 8,00
Chickasaw Refining Co	do	5,00 2,50
Peoples Refining Co.	Ringling, Okla. (under construction)do Healdton, Okla. (under construction)	2.00
-		
Total		27,20

LOSSES BY FIRE.

Fire losses during the past fiscal year on tank farms and leases as far as reported to this office were as follows:

	Darrets.
Cushing field	294, 507. 96
Healdton field	214, 800. 00

CASING-HEAD GAS

The importance of the casing-head gas industry in supplementing the available supply of gasoline obtained in ordinary refining operations can not be overestimated, both as relating to the demands of war and to the general policy of conservation of natural resources.

The various grades of casing-head gas suitable for manufacture of gasoline, conditions under which it is marketed, as between sellers and users, transportation facilities, water supply, locations of plants, quantities of gas available, and numerous other considerations have resulted in great variations in prices paid, and in consequence the matter of determining a fair and uniform method of arriving at the lessor's interest in such gas has presented an unusual difficulty. The producers and gasoline manufacturers, after presenting various phases of the subject to the department, eventually agreed upon a method of testing casing-head gas. This was placed before the department and adopted in substantially the form submitted and such procedure embodied in regulations pertaining to casing-head gas approved by the department August 10, 1917.

A conscientious effort has been made in cooperation with producers, both users and sellers, to carry out the spirit of these regulations. The basis of settlement and the prices for gas according to schedule and regulations is low enough to give considerable latitude to operators, thus enabling them to make contracts at better prices than specified in same. Some of the larger corporations, in their mutual agreements with their subsidiaries providing for the utilization of their own casing-head gas, are within the requirements without

resorting to a physical test of the gas.

The difficulties and resulting inaccuracy of tests are due to a number of conditions, some of which may be summarized as follows:

(1) The time of the year taken, as climatic condition and temperature have a bearing on results.

(2) Conditions of lease, such as wells on the pump or off, cleaning

wells, and other lease work.

(3) Point of sampling the gas and conditions under which the

sample is taken.

(4) Improper design of machine, such as lack of cooling surface, inefficient compression, faulty manipulation, poor connections and many defects in mechanical equipment of various kinds designed to make these tests.

(5) Natural errors creeping in when small quantities of gas are

tested, together with incorrect meters.

(6) Excessive evaporation in open air field tests.

By reason of these problems which have arisen in the actual operation of a field-testing outfit, one must conclude that much must yet be done before a uniform and fairly accurate method of testing the productivity of small quantities of casing-head gas which will compare favorably with plant operations is fully realized. In a general way, the present adopted method of testing casing-head gas has been given a comparatively short trial only, and it is still too early to say that it is either unsatisfactory or that it is the best that could be devised under the numerous and widely different conditions. However, the design of a machine for this purpose should be worked out along the lines of general practice in the field, that is, two-stage compression, adequate cooling surface, mixture of both high and low grade products before drawing same off from the accumulators. The measurement of the gas by piston displacement is also preferable to the ordinary grade of meters which are used on these machines to determine the quantity of gas tested. These are the simplest essentials, as it never can be hoped to attain or parallel exactly plant operations with a field-testing outfit because of the numerous modifications, variations, and refinements in practice that are being worked out in different plants to increase and save the yield of gasoline per 1,000 cubic feet gas treated.

The following is a list of casing-head gasoline plants that have been constructed, and are in addition to those submitted in the last annual

report:

CUSHING FIELD.

	Location.		Gas capacity.		
Companies.	Section.	Town-ship.	Range.	Units.	Cubic feet.
Carter Oil Co. Do. Rowland Gasoline Co. Oklahoma Natural Gas Co.	28	18 17 16 16	7 7 7 7 7	4 2 8 Absorb.	2,000,000 1,000,009 3,000,000 1,000,000
HEALDTON 1	FIELD.	•			
Magnolia Petroleum Co.: Plant No. 1. Plant No. 2. Plant No. 3. Gates Oil Co.	23	48. 48. 48.	3 W. 3 W. 3 W. 3 W.	3 4 2 6	1,500,000 2,000,000 1,000,000 8,000,000

PLANTS UNDER CONSTRUCTION.

1 Estimated capacity

Following is a brief summary of office and field work showing volume and character of same:

Separate written reports on minor leases	147 51 29
Office reports as to adequacy of bonus Bonus reports on leases outside of Five Tribes	1, 315
Bonus reports on leases outside of Five Tribes	42
Bonus letters written	120
Field appraisements oil and gas value	74
Office appraisements.	
Special field reports on development and operation	121
Investigation of complaints and offset wells.	88
Gas wells tested	16
Stipulations and assignments.	69
General field reports.	90
Miscellaneous reports.	129
Current letters	253
Reports upon leases upon which daily gauges are taken and reports made Casing-head gas tests	285 93

OIL AND GAS INSPECTORS.

In preparing the report for the oil and gas inspectors for the fiscal year 1918, an attempt has been made to condense all information as much as possible. All information of such character that would permit of the arrangement has either been put in the form of curves or tabulations. This is believed advisable because of the necessity of condensing all information and giving nothing but essential facts.

Outside of the fact that the office has been considerably hampered by war conditions during the year, principally in the change of personnel, it is felt that substantial progress has been made in carrying on the work toward the desired ends in the matter of maintaining

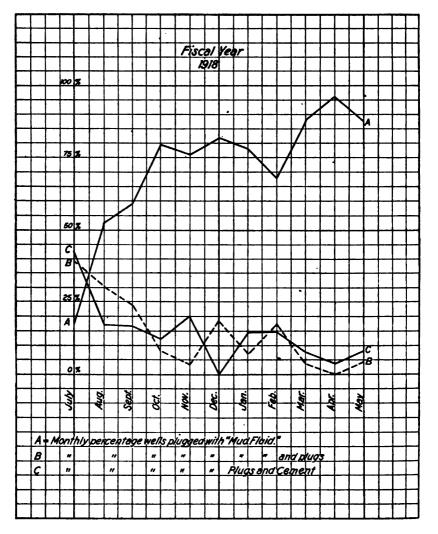
production at a high standard and the prevention of waste.

In keeping with the general policy of the Petroleum Division of the Bureau of Mines, it has been felt that it is far better to solicit and obtain the cooperation of oil and gas producers than to use forceful methods which are set forth in the regulations. It has been believed also that far better results can be obtained by demonstrating the advisability of different methods and showing the advisability of their adoption in such form that the producers and operators may see the financial necessity of following out the suggestions of this office. This policy has been pursued during the entire year and, with very few exceptions, has met with excellent results. There have been a few cases, however, in which considerable force was necessary in order to secure a compliance with the regulations. In practically all of these cases the requirements of the regulations have been met without any serious misunderstanding with the operators, or without the application of penalties which might have been applied.

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DEVELOPMENT OF OIL AND GAS PROPERTIES.

During the fiscal year 1918 there were a total of 454 producing wells drilled. This includes both oil and gas wells. At the same time there were 154 wells plugged. This includes both new wells drilled and old wells abandoned.



On the accompanying curve sheet are shown the number of producing wells drilled monthly, the number of wells plugged monthly, as well as the average number of producing wells drilled monthly, and the average number of wells plugged monthly.

The curve A shows the number of producing wells drilled monthly. The dotted line A' shows the average number of wells drilled monthly. The curve B shows the number of wells plugged monthly, Curve B' shows the average number of wells plugged monthly,

In this connection it might be well to note that there have been very few wells brought in on new leases, or leases that had not been drilled previously. The great majority of the producing wells reported are on leases where production has been brought in prior to this fiscal year. A considerable number of the wells reported as plugged represent wells which were drilled in new territory and were

found to be dry.

It is also noticeable that on other reservations, outside of the Five Civilized Tribes with the exception of the Osage, there have been very few wells drilled on restricted Indian lands. On the 1st of July, 1918, considerable land was found to be leased in the Kiowa and Otoe Reservations and notification cards have been received showing that drilling operations would start in those reservations within a short time. On all other reservations where land has been reported as being under lease, there has been no development to this date. Furthermore, after a study of the general oil situation and especially with reference to the geological work that has been done, it seems very unlikely that any large body of oil-producing land will be opened up in any of these reservations, with the possible exception of the Kiowa.

It is also believed that the great majority of land still restricted, outside of that already producing, will produce very little oil, as quite a comprehensive and thorough examination has been made by numerous companies in practically all localities. It is reasonable to assume, therefore, that from this time forward, the development of oil properties on restricted Indian lands within the Five Civilized Tribes will show a gradual and perhaps a rapid decline. This also holds true of all other lands in eastern Oklahoma, except the Osage. While there may be small isolated pools developed, nothing of any great magnitude can be expected.

INDIAN LANDS UNDER LEASE IN OKLAHOMA IN JANUARY, 1918.

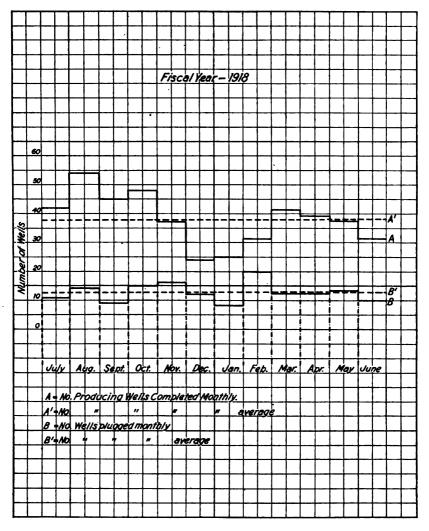
During the month of January, 1918, upon the request of the Bureau of Mines at Washington, D. C., for the congressional committee on Public Lands, an investigation was completed showing the total producing and nonproducing acreage held under lease for oil and gas operation by companies and individuals on all restricted Indian and tribal lands in Oklahoma.

The following tabulation shows these data in total for each tribe or nation:

Acreage on which Noneither pro-ducing oil Nation or tribe. producing acreage or gas wells occur 253, 622 158, 045 59, 340 93,396 89,906 160 Five Civilized Tribes..... 5, 321 42, 706 17, 357 None. 956 Pawnee Sac and Fox.
Cheyenne and Arapahoe.
Cantonment. None. None. 549,840 184, 418

METHODS OF PLUG AND ABANDONED WELLS.

Due to the fact that the old methods which had been previously used in the Mid-Continent field had been found ineffective, it was decided during the early part of the fiscal year to advocate the use



of mud fluid in the plugging of all wells. The accompanying curves show the increase in the use of mud fluid in plugging wells.

The method represented by the curve A shows the monthly percentage of wells plugged by mud fluid. This method has been almost universally advocated by the Muskogee office of the bureau, first, because of the certainty of securing a good job of plugging, and, second, because of the facility of the work and the reduced cost over old methods.

The curve B shows the method whereby the wells were plugged by the use of mud fluid and plugs. This method has been found to be dangerous, because it breaks the pressure exerted on any given forma-

tion that would normally result if the plugs were omitted.

The secret of success in using mud fluid in a continuous column from the bottom of the hole to the surface of the ground depends on two factors: First, the consistency of the fluid, free from coarse material; and, second, the pressure built up by continuous column of mud on all formations. When plugs are placed in the well, this column is naturally broken and in conjunction with the breaking of the column the pressure exerted on any given formation is reduced and is only equivalent to the pressure exerted from the bottom of each plug to the top of the next.

The curve C shows the method formerly employed where plugs and cement were used. This method has been found to be dangerous and expensive—dangerous, because of the uncertainty of the accuracy of logs, and expensive, because it has often been found necessary to

redrill wells and plug them over again.

By glancing at the accompanying curves it will be readily seen that the mud-fluid method has met with great favor and is rapidly becoming the method that is used in all cases. There seems little doubt but that in a short time this method will become universally used in the Mid-Continent field, and therefore this phase of the work of the inspectors is gradually becoming less, and no doubt will arrive at the point in the near future where further attention will be unnecessary.

REPORTS RECEIVED IN THE OFFICE DURING FISCAL YEAR.

Number of notification to drill cards received.	463
Number of notification to deepen cards received	
Number of notification to plug cards received	249
Plugging records received	339
Final logs of completed wells received	699
Semiannual lease status reports received	1,070

In the above tabulation of reports received at the office during the fiscal year it will be noted that the number of final logs of completed wells received and the number of plugging records received vary from those shown in another part of the report. This apparent discrepancy is due to the fact that many of the records which were received in the earlier part of the year were on wells that had been either drilled or plugged prior to the 1st of July, 1917, and the records were not received until at a later date.

CENSUS OF OIL WELL CASING.

During most of the month of December, 1917, and the early part of January, 1918, the entire force of inspectors and clerical assistants was engaged in collecting and tabulating information showing the available supply of oil well casing and tubing of all sizes in the State of Oklahoma.

In this work the State was divided into districts and each district assigned to an inspector. It was the duty of the inspector in each locality to visit all companies, either operating or dealing in oil well supplies and to secure and tabulate all casing and tubing not

in actual use in the wells, or in lines. This information was collected at the request of the War Trade Board and was part of a survey taking in the total available supply of products of this character throughout the United States. The tabulated data were forwarded from this office to the Petroleum Division of the Bureau of Mines at Washington.

REFINERIES IN OKLAHOMA.

During the month of July, 1917, a survey of the refineries in the State of Oklahoma was made at the request of the Council of National Defense. In this work every refinery in the State was visited and data were obtained on the amounts of crude treated with the various products and by-products obtained.

This investigation showed that there were 65 refineries in the State, with an aggregate capacity of 213,875 barrels daily. This included "cracking" and "topping" plants. This work required

more than one month of the entire time of one inspector.

The complete and detailed reports were furnished to the United States Bureau of Mines at Washington as a part of a general report covering the entire refining industry of the United States.

USE OF PORTLAND CEMENT.

During the fiscal year 1918 very gratifying progress was made in the use of Portland cement to exclude water from producing oil sands. As far as it is possible to determine, the first wells were cemented in the Cushing field in the latter part of the fiscal year 1917, under the directions of the inspectors working out of this

office. This work was reported in the last annual report.

Most of the work accomplished in the Cushing field has been on "bottom water" problems. This work has been done very largely by the producers with advice and assistance of this office. There have been very few wells worked on where a second attempt was necessary to produce desired results. As will be readily seen from the list of wells cemented, a complete "shut-off" of water was obtained in the majority of wells, while in all of them there was a great decrease in the amount of water handled and a very marked increase in the oil production. In a great many cases where a complete "shut-off" was not obtained it is reasonable to assume that the water comes from some source other than the bottom. It is intended, as soon as possible, to determine the source of this water and to take steps to exclude it from the wells. One of the greatest sources of gratification has been that many operators have learned the advisability of the use of cement and its efficiency over old methods in "shutting off" water and are proceeding vigorously with its use at this time.

Following is given a list of wells cemented, showing the decrease in water and the increase in oil and the gross value of the increased

production daily at the present market price of oil.

SINA CROW (SEC. 5, 18 N., 7 E.). OHIO CITIES GAS CO.

	Oti.	Water.	Gross value increased production daily.
Well No. 8: Belore	Barrels.	Barrels. All water.	\$85.50
Well No. 12: Before	60	All water.	135.00
Before After	28	All water.	63.00
WALTER STARR (SECS. 8 AND 17, 18 N., 7 E.).	SILURIA	N OIL CO.	
Weil No. 2: Before.		All water.	
After	15	All water,	\$33. 7
After Wall No. 6: Before	15	All water.	33.7
After Well No. 14: Before	45	All water.	101. 6
Āfter	45		101.6
VIDA M. WAY (SEC. 7, 18 N., 7 E.). MAGNOLIA Well No. 16: Before	15 20	150	\$11, 2
MUSSELLEUM FARM (SEC. 8, 13 N., 7 E.). MAGNO	LIA PET	ROLEUM (co.
Well No. 19: Before		All water.	
After Well No. 25: Before	7	All water.	\$15.7
After Well No. 24: Before	7 6 30	125	15. 7. 54. 0
Well No. 14: Before	8	All water.	18.0
Well No. 4: Before	5		11.2
THOMAS CONNOR (SEC. 8, 18 N., 7 E.). MAGNOI		OLEUM C	0.
			<u> </u>
Well No. 15: Before	6	All water.	\$13.5
BENJAMIN VANCE (SEC. 7, 18 N., 7 E.). MAGNO	LIA PETI	ROLEUM (
Well No. 14: Before.	25	150	
After	40		\$33.7

RUSSELL THOMPSON (SEC. 2, 17 N., 7 E.). MAGNOLIA PETROLEUM CO.

	Oil.	Water.	Gross value increased production daily.
Well No. 5: Before	Barrels. 50 65	Barrels. 150	\$33. 78
SAMUEL E. VANCE (SEC. 6, 18 N., 7 E.). MAGNOI	JA PETI	ROLEUM	co.
Well No. 15:			1
Before	15	All water.	\$33. 75
Before	.10	125	15. 75
Well No. 25: Before	5	All water.	11. 25
Well No. 21: Before	5 15	150	22. 50
MOLLIE JONES,	,		i
Well No. 1:			
Weil No. 1: Before. After	5	All water.	\$11.75
MALEY YARHOLA (SEC. 8, 17 N., 7 E.). ROXAN	A PETR	OLEUM CO).
Well No. 11:			
Before	5 12	3 0 3	\$15.75
Before	60	45	135.00
Before	40	100	90.00
Before	15 17. 5	50 10	5. 62
Well No. 27: Before	157	100	352. 25
JACKSON BARNETT (SEC. 5, 17 N., 7 E.). CUSHING GASC	OLINE &	PETROLE	UM CO.
W-1137 - 11.			
Well No. 11: Before	10	100	\$22. 50
Well No. 15: Before	4 15	125 10	24. 75
SAMUEL RICHARDS (SEC. 4, 17 N., 7 E.). T	'IDAL OI	L CO.	
- " " - "			
Well No. 10: Before	10	100	\$22. 50
JEANNETTE TIGER (SEC. 16, 17 N., 7 E.). T	IDAL O	L CO.	
Well No. 8:			
		100	

BENOCHE FIXICO (SEC. 17, 18 N., 7 E.). TIDAL OIL CO.

	Oil.	Water.	Gross value increased production daily.
Well No. 1:	Barrels.	Barrels.	
Before	100	100 10	\$225.00
Well No. 6: Before		100	
After	130	7	292, 50
Before	140	100 5	314. 50
Well No. 9: Before		100	
After	5	5	11. 25

This list shows that there have been a total of 35 wells cemented in the north end of the Cushing field, and the test following the cementing showed that there was an actual increase on this number of wells of 1,067.5 barrels per day above the amount of oil produced before the work was started. This is an average increase of 30.5 barrels

per well per day.

The tabulation also shows that the total daily gross proceeds from the sale of this oil at the present market price, \$2.25 per barrel, would be equivalent to \$2,401.57. In none of these cases has the work required cost the producing company over \$200 per well as an extreme maximum. Therefore it is reasonable to assume that the total cost of cementing the 35 wells at the maximum has not been over \$7,000. Assuming that this production will continue for a period of one year on the 35 wells, there would be accumulated in that time total gross proceeds of \$867,577, which cost the producer, as shown above, a maximum of not over \$7,000. Work of this character, therefore, is well worth while and needs no further comment or argument to show its value.

In this connection it might also be well to state that the work so far done in the Cushing field has been in those localities where water has been giving the greatest amount of trouble. By referring to the above list, it will be noticed that a great many of the wells which are now producing oil in considerable quantities produced nothing but

water before the work was done on them.

Also before the close of the fiscal year considerable progress has been made in demonstrating to the producers in the Healdton field the advisability of using cement. The first use of cement in the Healdton field was for the cementing of casing above the producing sand to prevent the water from flowing in from above the producing horizon. One or two wells had been cemented for "bottom water," and, after finding that it would work, gradually the producers are becoming interested in it and it is very reasonable to anticipate a very marked increase in the cementing of wells in the Healdton field during the fiscal year 1919.

The following list shows wells which were "standing in" cement on the 1st of July, 1918. These wells have not been tested as yet, but excellent results are anticipated, because of the results obtained on

other wells in the immediate vicinity.

Well No.	Lessor	Lessee.
	Eastman Richards Benoche Fixico Lessey Yarhola Maley Yarhola do Eliza Yarhola. do do	Gypsy Oil Co. Tidal Oil Co. Do. Roxana Petroleum Co.

SPECIAL FIELD PROBLEMS.

REPORT ON SOUTHEAST EXTENSION OF THE HEALDTON FIELD.

Because of the fact that the majority of fields in Oklahoma were becoming flooded with water due to the lack of proper care of the wells, it was decided early in September, 1917, to make an investigation of a certain area in the southeast extension of the Healdton field to determine the conditions with a view of lending any possible assistance toward a better understanding of the prevailing conditions and the use of the information thus gained as an assistance in preventing further encroachment of water and in remedying those wells in which water was already being produced.

The area covered comprised all of section 24, parts of sections 25, 14, 13, _6, and 23, in township 4 south and range 3 west; and parts of sections 18, 19, and 30, in township 4 south and range 2 west. The total areas covered embraced approximately 2 square miles.

The ultimate objects as mentioned before, which it was hoped to

attain were-

First. A better understanding of the underground structure and the conditions affecting the occurrence of water and the application of this knowledge in preventing the spread of water throughout the field.

Second. As a demonstration to the operators concerned in the locality, as well as to other operators, that work of this kind comprised in the report is of a financial benefit, in that it aids in basing their operations on accurate data rather than on "guesswork," so often employed.

Third. Certain suggestions were made as to drilling operations, which it was thought might be of assistance in a more efficient operation and greater extraction of the oil content of the various sands.

Fourth. It was also shown that the effect of shooting the oil

sands had been detrimental in several ways.

In the preliminary field work elevations of oil wells drilled were taken as accurately as possible by stadia measurements, and were carried from a United States Government bench mark at the southeast corner of township 4 south and range 3 west. It is believed that the elevations on all wells are within an error of less than 3 feet of the exact altitude above sea level.

Various cross sections showing the condition of the wells were made east and west across the field, and correlation of the sands was given at the bottom of each plate. The occurrence of water and a general description of the geology of the locality were given, and the relation of water to the occurrence of oil was shown in each case on the several cross sections.

It was found that the greatest source of water originated from two sources: First, "top water," or that water which comes in from above the producing sand, due to the unseated or leaky casing; second, "bottom water," or that water which was encountered in separate and distinct formations below the producing sand. The relation of wells to each other was pointed out and the possibilities of water migration from one to another were shown.

Due to the fact that the Government Printing Office at Washington was overworked at the time the report was completed, permission was secured to furnish copies to those operators and producers who were interested in the particular locality covered by the report. This has been done in most cases, and eventually copies will be put

in the hands of all of those operators.

It is the thorough belief of those connected with this office that work of the character comprising the Healdton report is of vital importance to the successful continuation of the oil production in the Mid-Continent field, because of the fact that in the great majority of places the oil fields have passed the "flush production" stage and water is beginning to show in various wells. In order, then, to thoroughly understand and be able to combat the encroachment of water, it is necessary that work of this kind be carried on accurately and faithfully. This report, then, was nothing but an urgent study in order to interest oil operators in the value of work of this character.

FIELD WORK IN PICKETT PRAIRIE AND PUMPKIN CENTER.

It was believed that other work similar to that done in the Healdton field should be continued, and consequently in October and November, 1917, additional field surveys were made of the Pickett Prairie field in township 16 north, range 11 east, and in the Pumpkin Center field in township 18 north, range 11 east.

Due to the fact that present war conditions have taken away a number of men, it has been impossible to complete the work on those two localities at the present time. It is intended to finish this

work at the earliest possible opportunity.

PROBATE.

The act of Congress approved May 27, 1908 (35 Stat., 312), provided for the appointment of "local representatives" of the Secretary of the Interior (United States probate attorneys), and gave them authority in probate matters affecting guardianships of enrolled minor allottees of the Five Civilized Tribes.

In a large number of cases many questions arise, such as the necessity for sale of lands, adequacy of rentals, present and prospective values, the character and value of improvements, the consideration offered, and the resulting benefit to be derived from various transactions affecting the estates of minors and adults under legal disability.

In the matter of the investment of funds of minor allottees in the purchase of real estate, there is also the necessity for careful investigation of title, value, location as to proximity to market, character and value of lands and improvements, consideration to be paid for the land, and the benefit as an investment to the estates whose funds are thus sought to be invested.

As to the investment of the funds of minor allottees by loans, secured by first real estate mortgages, there is also the necessity for the most careful investigation of the title, rate of interest, and

value of the security offered for the loans.

Through the activities of the probate attorneys, not only has the liability to loss by unnecessary and improvident investment of the funds of minor allottees been largely overcome, but by their active cooperation with the courts and the attention they give to the interests intrusted to them for and in behalf of the minor allottees, minor's funds have been and are being conserved and invested to

the best interests of these estates.

In the sales of inherited interests of full-blood allottees jurisdiction to approve deeds conveying their interest in lands of deceased full-blood Indians is conferred upon county courts of this State. The statutes governing the proceedings for the approval of deeds require that every jurisdictional fact be alleged and sustained by competent testimony. In this class of cases the probate attorneys render very valuable service. The death of the deceased whose lands are sought to be sold and the proof of heirship are the two primary facts to be distinctly proved. But other facts, such as the date and place of death and residence of the deceased at the time of the death, value of the interest to be conveyed, ascertained by disinterested witnesses, and that the purchase price is fair, reasonable, and adequate, must also be established.

Very often the applicant can not speak or understand the English language, has no personal knowledge of the land he seeks to convey or its value, and is not adequately informed as to his relationship to the deceased, relying upon family gossip and statements of the prospective purchaser and others interested in the promotion of the sale. Having had no experience in land deals and with but little, if any, business ability and needing ready money, the applicant for the approval of the deed easily and readily becomes a willing victim, unconscious of the loss he would suffer by the approval of his deed. The probate attorney under such circumstances protests against the sale and presents evidence in support of such protest. On the other hand, approval of the deed is recommended by the probate attorney

when the facts and circumstances justify the sale.

The benefits to the minor members of the Five Civilized Tribes—educational, financial, and otherwise—resulting from the activities of the probate attorneys can not be overestimated.

LAW AND ORDER.

Realizing the demoralizing effect of the liquor traffic upon the Indian wards of the Government, Congress has enacted stringent legislation to prohibit the sale of intoxicating liquors to Indians, one of the most effective being the act of March 2, 1917, making auto-

mobiles or any other conveyances used in introducing or attempting to introduce liquors into the Indian country subject to seizure and forfeiture. Pursuant to this law Federal enforcement officers have confiscated 100 automobiles in addition to numerous other vehicles used as carriers of liquor.

Another effective congressional act was approved March 29, 1917, the so-called "bone-dry" legislation, making it unlawful to mail any kind of advertisements of intoxicating liquors to any person at any

place in the State.

In former years one of the greatest problems confronting the enforcement officers in their efforts to keep liquor out of the Indian country was that, in what was known as Indian Territory before statehood, intrastate and interstate shipments or carriage of liquor were permitted. Under date of February 23, 1917, the Oklahoma Legislature passed the so-called "bone-dry" law. This makes it unlawful for any person in the State to possess liquor, the sale of which is prohibited, received directly or indirectly from a common or other carrier. This law applies to liquors intended for personal use, as well as otherwise, and to intrastate and interstate shipments or carriers. The only exception granted by this law is in favor of doctors or to hospitals, which may receive or possess pure grain alcohol for medicinal purposes. The passage of this act removed practically the only remaining impediment to the suppression of the liquor traffic.

Only in two counties was there any concerted action by the I. W. W. or similar organizations, and the few Indians who belonged to these organizations were not leaders, but were those who were unable to understand the English language and did not fully understand the purpose of the organizations. About 15 Indians were arrested in Hughes County, but the field clerk reports they were all discharged. In Seminole County only a few Indians were implicated and received punishment. As a whole the Indians fulfilled their obligations under the draft law without complaint, even though they did not understand its provisions as well as did their better-educated neighbors.

RECENT DECISIONS RENDERED BY THE STATE AND FEDERAL COURTS AFFECTING CITIZENS OF THE FIVE CIVILIZED TRIBES AND THEIR ESTATES.

BENJAMIN HARRISON CASE.

Benjamin Harrison, a duly enrolled citizen of the Creek Nation, died on November 10, 1900, when an infant, survived by his parents, two brothers, and a sister. An allotment was selected in the name of Benjamin Harrison on March 22, 1902, at a time when the Creek law of descent and distribution was in effect, and in accordance with said law, as construed by the Supreme Court of Oklahoma, this allotment passed absolutely to the mother of said Benjamin Harrison as sole heir, she being his "nearest relation." This decedent was, as were his parents, brothers, and sister, enrolled as a full-blood citizen of the Creek Nation. On January 7, 1911, Ellen Harrison, then Cooper, the mother and sole heir of said Benjamin Harrison, executed a conveyance purporting to convey to James A. Harris her interest in and to a part of the land allotted in the name of this

decedent, and this conveyance was submitted for departmental action, under the supposition that approval by the Secretary of the Interior was necessary in accordance with the opinion of the Attorney General of August 7, 1909, relating to conveyances of inherited land in the Five Civilized Tribes.

The question in this case was, did this land pass to decedent's mother as an inherited or an original allotment? The First Assistant Secretary of the Interior, in his opinion of July 25, 1912, held that no right or title ever vested in the said Benjamin Harrison to the land constituting the allotment selected in his name; that he died seized of no estate of inheritance therein; that the allotment, when made, passed by direct grant of the Creek Nation to his heirs; and that they took said land not as an inherited, but as an original allotment. It is further held in this opinion that as this land constituted an original allotment the laws governing the removal of restrictions and the sale of allotted lands must be applied rather than those laws affecting inherited allotments. This holding of the First Assistant Secretary of the Interior has been adhered to by the department and as a result there are numerous instances where supervision is retained over lands of this character and the leases thereon, even though it appears that the heirs have conveyed with the approval of the proper court, as provided by section 9 of the act of Congress of May 27, 1908 (35 Stat., 312).

In this connection, attention is called to a decision of the Supreme Court of the State of Oklahoma, in the case of Moffett v. Conley (163 Pac., 168), wherein the court had under consideration the question whether lands allotted in the name of a deceased Indian passed to the heirs by purchase or by inheritance. The court in this case said in effect that an allotment selected and made subsequent to the death of the citizen was made in satisfaction of the right which he, as one of the enrolled citizens and allottable units of the tribe, had in his lifetime; that the heirs took their title therefore not because of their enrollment as tribal citizens alone, but because they were his heirs, because they were related to him by consanguinity and succeeded to his rights at his death; that the lands allotted on his account were not intended as a bounty or gratuity to the heirs by the tribe; that the heirs succeeded to the same rights that the ancestor had at the time of his death, and that this right constituted an estate of inheritance and went by operation of law to his heirs. The doctrine set forth in this case, has been followed by the same court in later decisions.

The Supreme Court of the United States in the case of Tally v. Burgess (38 Supreme Court Reporter, 287), having under consideration, among other things, the question whether section 22 of the act of April 26, 1906 (34 Stat., 137), providing for the sale by heirs of inherited lands, is applicable to cases only where the selection of an allotment was made by the deceased citizen during his lifetime, said:

But in our view Congress in the passage of section 22 had in contemplation that Indians duly enrolled and entitled to share in the tribal property and lands might die before receiving the allotment to which he or she was entitled.

Provision was made in the several agreements entered into with representatives of each Nation of the Five Civilized Tribes to the effect that land might be allotted in the name of the deceased citizen and should descend to the heirs of the one who would have been entitled, if living, and as to this the court said:

We think * * heirs who thus received lands are within the meaning and purpose of the statute (sec. 22, act of Apr. 26, 1906), as much so as they would have been, had the land been selected by the ancestor in his lifetime.

In view of the decisions above referred to, it appears that the doctrine set forth in the Benjamin Harrison case decision, as to the status or character of land selected subsequent to the death of the citizen entitled and the laws applicable thereto, is no longer tenable.

NEEDED LEGISLATION.

TRIBAL AFFAIRS.

1. For the survey of the boundary line between the State of Texas and the Choctaw and Chickasaw Nations along the Red River.

2. For the per capita distribution of tribal funds on deposit and

as they accumulate.

INDIVIDUAL INDIANS.

1. An appropriation of \$200,000 for the administration of the affairs of the Five Civilized Tribes.

2. An appropriation of \$275,000 for the aid of common schools in

eastern Oklahoma for the fiscal year 1920.

- 3. Provision for sanitaria, treating stations, physicians and nurses, conveniently located, for the treatment and prevention of diseases.
- 4. Repeal of the law which authorizes restricted lands to be leased for agricultural purposes without Federal supervision.

5. Repeal of the law which provides that restricted lands shall become unrestricted immediately upon the death of the allottee.

6. Repeal of the law which authorizes the execution of valid wills disposing of restricted property without departmental approval.

7. Extension of the Oklahoma law of descent and distribution to

all tribal property of the Five Civilized tribes.

8. Provision for a Federal board of guardianship and administratorship of estates of minors and heirs to coordinate with the Federal Land Loan Board.

HEALTH.

For several years, in annual and special reports, this office has urged the necessity for provision to combat disease among the Indians of the Five Civilized Tribes and to teach hygiene and the principles of sanitation for the prevention of the spread of contagious and infectious diseases.

At the beginning of the fiscal year 1918 this office received an allotment of \$10,850 for "health drives" among the restricted Choctaws and Cherokees. In addition, \$1,487 was authorized from the fund "Relief of Distress and Prevention of Disease Among Indians," this amount being used in cases of destitution.

Immediate plans were perfected for a health drive among the Cherokee and Choctaw Tribes of Indians, and field matrons were appointed to work under the personal direction of Government physicians and special supervisors, with the cooperation of the field

employees of this effice. Gratifying results were accomplished during the short time the small allotment of money would permit. The following summary gives an idea of the work accomplished during the period from July 2 to December 15, 1917, and indicates the need of continued and persistent work along this line:

CHOCTAW NATION.

BIRTHS AND DEATHS.

Number of babies 1 year and under reported	103 13
PREVALENCE OF DISEASE.	
Families with past or present tubercular infection. Deaths reported during the year due to tuberculosis. Cases of sore eyes. Cases of trachoma. Cases of epilepsy. Cases of paralysis	165 31 136 342 24 9
ACTIVITIES OF FIELD MATRONS.	
Total cases of illness treated and nursed by field matrons	325 101 167 93 ,500
CHEROKEE NATION.	
BIRTHS AND DEATHS. ,	
Number of babies 1 year and under reported	264 22 70
PREVALENCE OF DISEASE.	
Cases of sore eyes Allottees with tubercular infection Allottees afflicted with other diseases	266 125 231
ACTIVITIES OF PIELD MATRONS.	
Families visited	, 082 91 131 86 47 9 2

As will be noted by the above tabulated report, tuberculosis and kindred diseases present the greatest menace to the health and general welfare of the Indian tribes, due to the large number of families afflicted and ignorance of the people as to the cause and spread of disease.

Instances were reported where children were seen drinking from dippers used by adults in various stages of tuberculosis. Another menace to the health of the Indians of the Five Civilized Tribes has been their employment of Indian doctors instead of licensed practi-

tioners. Field matrons and field employees of this office have been successful in discouraging this practice to a large extent. One of the greatest problems which confronted the workers in the health drive was to gain the consent of the Indians afflicted with tuberculosis to leave home and enter a sanatorium for treatment.

The Choctaw-Chickasaw Sanatorium, which opened to patients on November 17, 1916, has been of material benefit in taking care of urgent cases among the members of these tribes, and there is urgent need of similar facilities for the Cherokees, Creeks, and Seminoles.

The health problem finally resolves itself into an educational campaign chiefly, for it is believed that ignorance and indifference are primarily responsible for the spread of contagious and infectious diseases among the Indians. What the field matrons and physicians were able to accomplish, with the aid of the field employees of this office, in the alleviation of particular diseases has been considerable. What they have done to arouse the Indian to his needs is more, but the greatest task remains—that of persistent and prolonged education in matters of hygiene and sanitation.

EDUCATION.

This office and its field employees actively cooperate with the supervisor of Indian schools in securing a full enrollment and regular attendance of Indian children in public and Indian schools. Where parents or pupils are remiss in these matters or are unable to take advantage of school facilities, it is often possible for this office and its field employees to render service in remedying such conditions. Payments of individual Indian funds are made or withheld as the case may require, and all proper means are employed to secure regular attendance in school of all children of school age.

It is hecessary that a liberal appropriation for the aid of common schools of eastern Oklahoma be continued for several years. Many Indian children can not attend Indian schools, and as much of the land in a great many communities is nontaxed Indian allotments, without Federal aid, public schools could not be successfully maintained.

The accompanying report of Mr. A. S. Wyly, Supervisor of Indian Schools, shows in detail the organization, activities, and accomplishments of his office.

INDUSTRY.

The gratifying interest and activities of the restricted Indians of the Five Civilized Tribes aroused in the campaign of 1917 for increased food and feed production were equally manifested during 1918. Many acres of new land were put under cultivation. Practically every home planted a garden. Greater interest than ever before was taken in raising chickens, hogs, and cattle.

Under the advice and direction of our farmers and the representatives of the Department of Agriculture, county agents, both men and women, larger and more diversified crops were planted and better cultivated. Canning and drying vegetables were special features and accomplishments. Unfortunately the early drought in Oklahoma cut short and even destroyed many crops. However, the encouraging and important fact remains that the restricted Indians have become

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interested in farming and kindred interests, and thousands of them have come to realize that they can farm and raise stock as successfully and profitably as their white neighbors.

CONCLUSION.

Except in the Choctaw and Chickasaw Nations, practically all tribal property has been disposed of, leaving only miscellaneous details to be completed. Under the act of Congress approved February 8, 1918, the segregated coal and asphalt mineral deposits in the Choctaw and Chickasaw Nations are authorized to be sold by the Secretary of the Interior, and under the act approved May 25, 1918, equalization payments are authorized to be made to members entitled thereto of the Creek Tribe. Under these and prior acts there appears now sufficient legislation authorizing the Secretary of the Interior fully to dispose of all tribal affairs of the Choctaw, Chickasaw, Cherokee, Creek, and Seminole Nations. Under the necessary procedure it will take from 5 to 10 years, however, finally to dispose of all tribal property and to distribute the proceeds among the members of the tribes entitled to share therein.

Being of the life and spirit of the nation, the controlling thought and response of this office and the Indians, directly and indirectly under its supervision, have been inspired and directed in every possible way by the determination to render cheerfully and effectively positive, material service to the cause of our country and her allies in the world war.

Without doubt the Indians of the Five Civilized Tribes, particularly the restricted Indians, produced more food and feed by their own efforts and labor during the crop season of 1917 than ever before in their history. The same interest and efforts were manifested in the crop season of 1918. Unfortunately, however, the present drought in Oklahoma indicates slight production. The important and encouraging situation, however, is that the spirit and effort to do their best were manifested. During recent years allotments of the appropriation of the reimbursable fund were made to this office for the purchase of seeds for restricted Indians who were without funds and who desired to raise crops. In the fall of 1917 and the spring of 1918 I had an investigation made by my field men to ascertain the amount of the reimbursable fund that would be needed for the crop season of 1918 I was uniformly advised that the restricted Indians lived through the winter in better circumstances than formerly; that many had corn, vegetables, and other supplies stored away; and that fewer would need the reimbursable fund with which to purchase seeds.

It is impossible to report the amounts of purchases and donations of unrestricted Indians for war purposes; however, there have been purchased to July 1, 1918, for restricted Indians, having funds under the supervision of the department, \$6,923,670 worth of Liberty Bonds and War Savings Stamps, in addition to which many individual cash payments have been made for donations to the Red Cross. Employees of this office have purchased \$89,327 worth of Liberty Bonds and War Savings Stamps and contributed \$6,019.25 to the American Red Cross and local Young Men's Christian Association not including liberal contributions made locally by our field men to these causes.

There were constructed during the year 127 houses at a cost of \$134,466.67, 51 barns at \$22,912.95, and 96 wells at \$8,093.94. There were purchased 472 horses and mules at a cost of \$63,739.78, 494 cattle at \$35,766.84, 509 hogs at \$13,088.66, and 228 wagons at \$35,092.15. Miscellaneous farm implements were purchased at a total cost of \$25,544.10. There was disbursed on account of per capita payments, improvements, and individual cash payments to Indians, salaries and expenses, a total of \$12,455,146.08. There was received of individual and tribal funds and congressional appropriations a total of \$16,175,520.73, showing a grand total of all moneys handled by this office during the fiscal year of \$28,630,666.81.

In order to modernize the accounting system of this office and to expedite the work, upon my recommendation, two representatives of the Bureau of Efficiency spent several months instituting a new system. Already many advantages are apparent and unquestionably much time and labor will be saved both in the work of the department and this office. Under the old system the books of this office were closed for accounting and reporting purposes practically one-fourth of the entire year. Under the new system it is unnecessary to close the books during the preparation of the reports to the department and such reports can be rendered within a few days after the close of each quarter of the fiscal year. This one feature is worth many times more than the time and work necessary to change the system. In addition to this important improvement there are many other time and labor

saving features of the new system.

The fiscal year 1918 was replete with extraordinary developments and problems, caused principally by war conditions. It is estimated that more than 4,000 Indians of the Five Civilized Tribes have entered the military service. Their home and business relations, of course, had to be readjusted as quickly as possible, and naturally such of their affairs as are under the supervision of this office came up for immediate attention, often requiring unusual and special action, thus disrupting and delaying the ordinary routine. Sixty-three regular employees resigned, many of whom occupied the most important positions in the office. Thirty-eight entered the military service and the others largely went into commercial employment because of more attractive salaries. Notwithstanding these conditions, substantial progress was made toward disposing of tribal affairs and securing larger response and cooperation of individual restricted Indians in matters of education, industry, and conservation of their estates.

I renew my recommendation for an appropriation of \$200,000 for the administration of the affairs of the Five Civilized Tribes. Considering the volume of necessary work, the increased cost of labor, materials, and expenses, \$185,000 is inadequate to support the character and scope of administration needed. Justifications in detail will be submitted at the proper time.

Respectfully,

GABE E. PARKER, Superintendent for the Five Civilized Tribes.

The Commissioner of Indian Affairs.

ANNUAL REPORT OF THE SUPERVISOR OF INDIAN SCHOOLS. FIVE CIVILIZED TRIBES.

There is submitted herewith my annual report as supervisor of the schools of the Five Civilized Tribes for the fiscal year ended June 30, 1918.

INSPECTION OF BOARDING SCHOOLS.

Ten boarding schools having a capacity of about 100 pupils each were maintained in this jurisdiction. During the year a school for Chickasaw girls was opened at Ardmore, the Hargrove College property having been acquired for this purpose soon after the original Bloomfield School buildings were destroyed by fire in January, 1914. The schools were visited at regular intervals and two reports of

inspection were made.

The boarding schools, like all other institutions, have felt the effects of the war, and one result noticeable is a falling off in the average attendance, this being especially true of the schools for boys. The enrollment was as large and in some cases larger than heretofore but the general unrest in the country extended to the schools and there were more desertions than usual; some of the older boys were drafted and others volunteered for military service, and pursuant to the nation-wide campaign and demand for increased production of food and feed crops, and on account of the shortage of labor in nearly all localities, many of the boys were withdrawn to work on the farms.

BOARDING-SCHOOL EMPLOYEES.

Just before the close of the year Mr. William F. Aveb, who for six years was superintendent of Tuskahoma Academy, resigned to engage in private business, and Mr. William D. Dilbeck, principal of the Riverside High School, Fort Worth, Tex., was appointed to the vacancy and took charge on June 8. There were no other changes in superintendents but there have been many changes in subordinate positions. At one of the boys' schools with 14 authorized positions, 11 changes in employees were reported.

The employees generally are competent and superintendents have endeavored to secure the services of efficient people but it is becoming more and more difficult to retain them for the reason that better salaries are offered in other lines of work. The slight increase in salaries provided for by act of Congress was of some benefit but was not commensurate with the increased cost of living, and some of the experienced employees left the service for more attractive salaries. With frequent changes in employees it is not possible to accomplish the best results and to maintain a high standard of school work.

The academic positions and some of the industrial teachers' places are authorized for only nine months in the year, and if all employees were paid annual salaries, as is the practice in the general service, it is believed there would be fewer resignations and less consequent

disorganization of the work.

HEALTH.

Those things that make for better health conditions have had the thoughtful consideration of superintendents, physicians, nurses, and others charged with responsibility. All pupils are given a careful physical examination when they enroll and at frequent times during the year, and those having tuberculosis are urged to enter Government hospitals for treatment. At the Choctaw and Chickasaw schools it is not a difficult matter in most cases to have the tubercular children go to a hospital, as a sanatorium is maintained in the Choctaw Nation, but pupils at the other schools are compelled to go to institutions away from their homes and outside the State, and many of the parents seriously object to this.

Progress has been made in the treatment of trachoma and operative cases have had proper attention, but during the summer vacation months much that has been done toward eradicating the disease is lost by the children neglecting to observe and practice preventive

measures in their homes.

Epidemics of mumps, measles, and la grippe were reported at all the schools. At two of them a few cases of smallpox in a mild form developed, and at Eufaula there were three cases of diphtheria but by prompt action the further spread of these diseases was prevented.

The schools have playground apparatus; military drills, setting-up exercises, group games, and other kind of athletics have all been conducive to better health. Notwithstanding the greatly increased cost of all supplies, a sufficient quantity of good wholesome food has been provided.

ACADEMIC AND INDUSTRIAL TRAINING.

The academic course is limited to six grades at Cherokee, Euchee, Nuyaka, and Mekusukey, but at the other schools the work covers eight grades. The new course of study is followed as closely as possible considering the number of academic and industrial subjects required and the employees engaged. At the close of the year pupils in the third year primary, prevocational, and vocational grades took the final examinations, and notwithstanding the irregular attendance at some of the schools and the large number of changes of employees at others, the percentage of those making passing

grades ranged from 65 to 97.

Proper industrial instruction

Proper industrial instruction and training have continued to receive serious attention, and special consideration has been given to cooking, sewing, laundering, home training, and home making generally at the girls' schools. Many of the boys have allotments of land, and for this reason emphasis has been put on farming, stock raising, farm carpentry, and kindred subjects. While the industrial equipment is not wholly adequate it is sufficient to enable a substantial compliance with the requirements of the course of study. In every way the necessity for and dignity of labor has been upheld and the children usually have responded to the demands for work in the different industrial departments with good will and enthusiasm.

The way in which pupils and employees of the Five Tribes schools have answered the call of duty in connection with the war and its

different activities shows a fine spirit of loyalty and patriotism. The rules of the food administrator have been observed so far as possible, much of the waste has been eliminated, and there has been a substantial saving in flour, sugar, meat, and fats. More than \$150,000 in Liberty Bonds were bought and \$13,400 was invested in Thrift and War Savings Stamps. The contributions to the Red Cross, Young Men's Christian Association, and other similar organizations amounted to \$2,453.80, and the girls of the domestic art departments have made a large number of garments for the soldiers, one of the schools finishing more than 350 sweaters, helmets, and sleeping garments. The spirit of unselfish service and the habits of thrift and saving thus impressed must ultimately be of incalculable value to the Indian child.

MATERIAL IMPROVEMENTS.

The school plants have been kept in as good repair as available funds would permit, and at Eufaula a cottage large enough to accommodate most of the employees was completed. One of the small cottages formerly used for employees' quarters was converted into a hospital, which was a much-needed improvement, and each of the other schools should have a small modern building for similar purposes.

At Euchee and Tuskahoma modern dairy barns were built, and at Nuyaka a two-story frame shop building with storage and industrial class rooms was completed. The buildings at Bloomfield were remodeled and made modern so far as possible, but if this school is to be maintained within the per capita cost limit and a good standard of school work done a dormitory building, a domestic science cottage, and other necessary improvements should be made.

Heating plants were installed in the girls' dormitory and in the school building at Cherokee, and material was purchased for building a lavatory. Other needed improvements at this school have been recommended in inspection reports and it is hoped that these will be made this year. The condition of the heating plant at Wheelock Academy has also been the subject of correspondence with the office and this should by all means be put in good condition before the winter months.

PUBLIC SCHOOLS.

No day schools are maintained by the Government in this jurisdiction for the education of Indian children exclusively, the public schools in the 2,372 districts of the 40 counties being open to them. There were 379,059 children of all classes between the ages of 6 and 21 years enumerated in these districts, and of this number 25,612 are Indians. There were 18,869 Indian children enrolled in the district schools and 5,026 of them are restricted, having one-half or more Indian blood.

The full-blood Indian child who does not speak or understand the English language, and who is by nature timid and reticent, enters the public school seriously handicapped. In the average rural school with but one teacher and with 20 to 30 or more pupils classified by grades up to the eighth, it is not possible for the few nonspeaking English, full-blood children to receive the personal time and attention

of the teacher that their condition demands. The result is they frequently become discouraged and quit school or their attendance is so irregular that little permanent good is accomplished. It is this class of children that should be encouraged in every way to enroll at the tribal and other Indian boarding schools, where the course of study is well adapted to their needs and where they may have the

benefit of practical industrial training.

The reports of attendance of Indian children, the correspondence and conferences with county superintendents and local district school officials, and the personal visits made by the day school superintendent to more than 100 of the schools located in communities where many restricted Indians live, have enabled us to keep in touch with conditions, and the information thus received discloses that the regularity of attendance of both white and Indian children is not nearly so good as it ought to be. The State has a compulsory attendance law which applies to Indian and white children alike between the ages of 8 and 16 years, but it is not generally enforced.

In accordance with the regulations for the distribution of the appropriation of \$275,000 for aid of common schools in the Five Tribes and

the Quapaw Agency, payments were made as follows:

Tuition was paid to districts at the rate of 10 cents per day per pupil for the actual attendance of all Indian children of school age, but the incorporated town districts received tuition only for the attendance of such children who live in the district but outside the corporate limits. Tuition payments amounting to \$108,449 were made to 1,330 districts.

All districts other than incorporated towns and cities, where a tax of 5 or more mills was levied, received one-half of the amounts required in excess of a 5-mill levy to maintain an eight months term, provided such districts increased their levies sufficiently to pay the balance of the required amounts. Under this provision \$126,469.52

was disbursed.

A final payment of 12 cents per capita, based upon the State enumeration of all children of school age, was made to districts other than incorporated towns and cities, amounting to \$26,659.56. The

total amount disbursed was \$261,614.08.

The tables herewith show how the distribution of the congressional appropriation was made, the number of Five Tribe pupils enrolled at the nonreservation, Seneca, and Cheyenne-Arapahoe Schools, and statistics relative to the contract and tribal boarding schools. Attention is called to the fact that in the nonreservation, Seneca, and Cheyenne-Arapahoe Schools there were enrolled 837 children, at the contract schools 585, and at the tribal boarding schools 1,347 pupils, a total of 2,739, of whom 1,470, are full bloods, 686 other restricted, making a total of 2,156 in the restricted Indian class. With 18,869 Indian children enrolled in the public schools the total enrollment in all the schools amounted to 21,608 of the 25,612 Indian children enumerated.

Respectfully submitted.

A. S. WYLY, Supervisor.

The COMMISSIONER OF INDIAN AFFAIRS.

Enrollment of students from Five Civilized Tribes in Carlisle Indian School, Chilocon Training School, Haskell Institute, Seneca Indian School, and Cheyenne and Arapahoe School.

	Chero- kes.	Chicks-	Choctaw.	Creek.	Seminole.	Total.
Carlisie Indian School: Full blood. Other restricted. Unrestricted.	4 7 9	7 5 1	82 10 11	26 4 4	i	6 27 21
	20	13	53	84	1	121
Chilocco Training School: Full blood. Other restricted. Unrestricted.	109 52 3	13 18	30 21	28 14 3	9	189 105
,	164	81	51	45	9	300
Haskell Institute: Full blood Other restricted Unrestricted	35 68	7 7	85 27 6	35 17 1	5 3	117 122 7
	103	14	68	53	8	246
Seneca Indian School: Full blood Other restricted Unrestricted	43 23		,			43 23
	66					
Cheyenne and Arapahoe School: Full blood. Other restricted. Unrestricted.	45 21 4	16 3	1	4		66 24 4
	70	19	1	4		94
Total	423	77	173	136	18	827

827

Statistics of contract schools.1

	Full blood.	Other restricted.	Unre- stricted.	Total.	Average attend- ance.	Amount paid.
Okiahoma Presbyterian College for Girls, Durant: Choctaw		5	19	24	19.7	\$2,033.12
Chickasaw Murray State School of Agriculture, Tishomingo:	•••••	2	20	22	16.3	1, 702. 80
Choctaw	3 5	7	26 20	20 32	23. 4 25. 4	2, 555. 96 2, 714. 70
Hugo: Choctaw	77	7	3	87	71.8	8, 795. 14
Choctaw	i	4	18 22	13 27	9.5 18.8	1, 054. 59 2, 059. 85
Choctaw	27	13	15	55	45.9	4,800.09
Choctaw	32 24	12 21	52 37	96 82	67.8 62.1	7, 305. 58 6, 974. 55
Choctaw			15 6	15 6	14. 9 5. 2	1, 604. 76 546. 40
Choctaw	6	8 12	33 23	42 35	29.9 30.2	3, 224. 76 3, 240. 00
ChoctawChickasaw	. 145 . 30	40 46	176 128	361 204		31, 433. 91 17, 238. 40
Total.:	175	86	304	565		48, 672. 31

¹ All schools are in Oklahoma.

Boarding schools.1

School.	Post-office address.	Telegraphic address.	Telephone connection.	Railroad station.
Armstrong Male Academy.	Academy	Bokchito	Rural line ¹ 0 Bokchito.	Bokchito; 4 miles to school by private conveyance.
Jones Male Academy	Hartshorne .	Hartshorne .	Rural line to Harts- horne.	Hartshorne; 4 miles, to school by private con- veyance.
Wheelock Female Academy.	Millerton	Millerton	Private line to Miller- ton.	Millerton; 13 miles to school by private con- veyance.
Tuskahoma Female Academy.	Tuskahoma.	Tuskahoma.	Private line to Tusks- homs.	Tuskahoma; 4 miles to school by private con-
Bloomfield Seminary	Ardmore	Ardmore	With regular tele- phone line.	veyance. Ardmore; 2 miles from depot.
Cherokee Orphan Training School.	Park Hill	Tahlequah		Park Hill; 3 miles to school by private conveyance.
Mekusukey Academy	Seminole	Seminole	Government line to Seminole.	Seminole; 5 miles to school by private conveyance.
Eufaula Boarding School.	Eufaula	Eufaula	With regular tele- phone line.	Eufaula; 1 mile from depot.
Euchee Boarding	Sapulpa	Sapulpa	do	Sapulpa; 1 mile from depot.
Nuyaka Boarding School.	Nuyaka	Okmulgee	Rural line to Okmul- gee.	Beggs; 12 miles to school by private conveyance.

¹All schools are in Oklahoma.

. Statistics of tribal boarding schools.

·	Total enroli ment	full-	Number other re- stricted pupils.	Number unre- stricted pupils.	Num full-b and o restri- pup comp ing co of stu	lood ther cted ils olet- urse	Total numbe completing course of study	A Ver- age attend- ance.
Cherokee Nation: Cherokee Orphan Training School Chickasa w Nation:	17	7 127	50	•••••		5	,	5 129
Bloomfield Seminary Collins Institute 1	11	6 43	20	53				66
Choctaw Nation: Armstrong Male Orphan Academy. Jones Male Academy. Tuskahoma Female Academy. Wheelock Female Orphan Acad	12	3 63	10 37 82	28 23 58		4		81 86 4 99
emyCreek Nation:	1	- 1	17	36		• • • • •		1 88
Euchee Boarding School Eufaula Boarding School Nuyaka Boarding School Seminole Nation:	1 13	6 86	24 36 23	9 14 6	,	<u>8</u> 6	1:	1 107 107 8 90
Mekusukey Academy	16	5 105	50	10		4		5 97
Total	1,34	7 811	299	237		27	34	8 950
		Permanent improve- ments and repairs to buildings.	Cost of mainte- nance.	Totann expe	ual ndi-	colle for t and	ount ected- coard music tion.	Net total expendi- ture.
Cherokee Nation: Cherokee Orphan Training School Chickasaw Nation: Bloomfield Seminary		11,081.36	\$22, 522. 3 17, 824. 6	7 28,90	06.03	•	277. 91 195. 27	\$35, 820. 92 28, 010. 78
Collins Institute ' Choctaw Nation: Armstrong Male Orphan Academ Jones Male Academy Tuskahoma Female Academy	у	1, 099. 47 1, 392. 79 2, 975. 88	2,911.3 24,784.3 19,150.5 24,427.2	2, 91 9 25, 88 8 20, 54 6 27, 40	1.34 . 3.86 3.37 3.24	1,6	90. 47 194. 81 153. 13	2, 911. 34 24, 793. 39 19, 848. 56 25, 750. 01
Wheelock Female Orphan Acade Creek Nation: Euchee Boarding School. Eufaula Boarding School. Nuyaka Boarding School.	my	2, 118.00 1, 872.92 1, 486.65 5, 665.66	21, 090. 4 21, 715. 6 19, 781. 2 23, 432. 7	7 23,20 4 23,58 2 21,26	8. 47 8. 56 7. 87	1, 2 1, 6	60. 09 62. 46 518. 99 845. 87	21, 948. 38 22, 326. 10 19, 648. 88 27, 852. 56
Seminole Nation: Mekusukey Academy		4, 540. 60	21, 820. 6	8 26,36	1.28	1,5	34. 46	24, 826. 82
Total		48, 809. 85	219, 461. 3	2 266, 27	1.17	12, 5	33. 46	253, 737. 71
	1			i			- I	_

¹ School discontinued Oct. 15, 1917.

Scholastic enumeration and distribution of \$275,000 appropriation in aid of common schools among the Five Civilized Tribes, and Quapaw Agency, Okla., fiscal year ended June 30, 1918.

		Tota	dren,	eration all dis	schoo tricts.	l chil-	children class.	hildren.	in dis- no pay-	d class	od class	receiv-
No.	County.	Number of dis- tricts.	Whites.	Indians.	Negroes.	Total.	Number Indian c	Ineligible Indian children	Indian children tricts receiving ments.	Number restricted in public schools	Number unrestricted in public schools	Number districts in ing payments
1	2	8	4	5	6	7	8	9	10	11	12	13
	CHEROKEE NATION.											
1 2 3 4 5 6 7 8 9	Adair Cherokee Craig Delaware Mayes Nowata Ottawa Rogers Sequoyah Washington	40 79 74 72 65 51 49 40 71 26	3, 173 5, 199 4, 381 3, 499 4, 177 3, 752 11, 229 5, 920 7, 272 6, 388	1,723 1,771 1,504 1,454 1,835 838 981 1,221 1,513 456	25 327 340 6 239 573 166 942 195	4,921 7,297 6,225 4,959 5,751 5,163 12,210 7,307 9,727 7,039	730 532 141 437 213 70 425 81 330 120	1	80	635 276 137 351 156 45 333 63 282 80	1,020 1,031 824 891 593 334 877 849	40 79 74 72 65 51 47 40 70 26
	CHICKASAW NATION.											
11 12 13 14 15 16 17 18 19 20 21	Carter Garvin Grady Jefferson Johnston Love Marshall Murray McClain Pontotoe Stephens	67 72 63 46 58 34 43 30 50 65 46	12, 257 10, 017 8, 372 5, 228 6, 731 4, 608 5, 343 4, 000 6, 256 10, 314 6, 680	218 417 404 68 389 115 358 234 235 300 210	695 701 81 232 430 129 111 263 382	14,322 11,129 9,477 5,377 7,352 5,153 5,830 4,345 6,754 10,996 6,926	95 56 57 12 130 27 125 68 14 145 23		38 78 34 26 12 5 15	60 24 50 8 87 14 90 40 10 84	273	63 69 62 42 56 33 42 29 49 65
	CHOCTAW NATION.											
22 23 24 25 26 27 28 29 30 31	Atoka. Bryan. Choctaw Coal. Haskell Latimer Le Flore. McCurtain Pittsburg Pushmataha	57 74 47 47 56 37 107 87 109 60	7,002 12,656 8,450 5,546 6,904 4,481 13,344 9,350 16,160 5,299	269 880 486 277 361 137 725 699 839	392 583 1,680 225 139 175 650 2,265 1,116 132	7,663 14,119 10,616 6,048 7,404 4,793 14,719 12,314 18,115 5,826	138 142 130 66 161 125 198 462 247 152		16 16 16 3 41	99 100 123 42 135 52 136 250 159 110	125 565 220 168 157 51 351 251 477 158	56 72 46 43 54 85 102 86 104 60
	CREEK NATION.											
32 33 34 35 36 37 38 39	Creek Hughes Muskogee McIntosh Okfuskee Okmulgee Tulsa Wagoner	76 70 83 67 50 46 39 65	15, 500 8, 682 13, 287 6, 706 5, 449 11, 233 19, 724 3, 965	121 391 1,283 1,020 312 259 786 341	2,043 738 5,303 2,501 3,321 3,311 1,868 2,479	17, 664 9, 811 19, 873 10, 227 9, 082 14, 803 22, 378 6, 785	81 220 193 318 175 155 145 90	2	20 26 160 18 7 57 49	38 150 131 216 119 77 104 60	56 133 785 434 135 85 311 196	70 68 78 64 47 41 35 61
40	SEMINOLE NATION. Seminole	54	6, 439	287	1,833	8,559	260		31	96	97	52
	Total		314, 973				7, 289	20	998	5, 026		2, 292

Scholastic enumeration and distribution of \$275,000 appropriation in aid of common schools among the Five Civilized Tribes, and Quapaw Agency, Okla., fiscal year ended June 30, 1918—Continued.

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				Distric	ts assist	ed by G	overnmen	t—rural	districts.	
			Scholastic enumeration. Payments.							
No.	County.	Number of districts.	Indians.	Withites.	Negroes.	Total.	Tuition.	Minority.	Additional.	Total.
1	2	14	15	16	17	18	19	20	21	22
1 2 3 4 5 6 7 8 9	CHEROREE NATION. Adair Cherokee Craig Delaware Mayes Nowata Ottawa Rogers Sequoyah Washington	43	1, 181 1, 292 947 646 723 527 964	4,595 2,658 2,918 3,002 1,813 7,103 2,192 5,418	285 213 6 239 359 57 671	7,053	\$5, 744. 70 5, 802. 10 6, 724. 10 6, 271. 70 5, 401. 80 3, 277. 50 2, 956. 50 4, 378. 80 2, 096. 10	\$79.56		9, 105. 30 7, 625. 29 10, 894. 81 6, 866. 91 3, 615. 66 9, 363. 35 4, 467. 09
11 12 13 14 15 16 17 18 19 20 21	CHICKASAW NATION. Carter	58 40 52	165 331 246 35 269 94 21 143 194 178	5, 891 6, 807 4, 456 2, 932 4, 392 3, 152 4, 098 2, 070 4, 636 6, 606 4, 097	1, 117 420 277 12 143 855 28 41 148 237 2	4,804 8,601 4,147 2,254 4,978 7,021	884. 90 810. 75 1, 594. 80 148. 90 697. 50 528. 90 835. 80 600. 10 902. 29 952. 30 651. 30	219.83 123.54 78.94 47.60 206.75	4, 996. 81 2, 302. 93 5, 063. 28 5, 356. 57 2, 877. 23 2, 819. 59 2, 531. 90	3, 734. 45 9, 349. 83 6, 591. 61 2, 451. 83 5, 884. 32 5, 962. 41 3, 713. 03 3, 419. 69 3, 481. 70 8, 848. 04 7, 733. 71
22 23 24 25 26 27 28 29 30 31	Atoka. Bryan. Choctaw. Coal. Haskell Latimer. Le Flore. McCurtain Pittsburg. Pushmataha. CREEK NATION.	41 43 51	190 596 380 281 229 134 519 585 684	5, 737 7, 966 4, 773 4, 022 4, 665 3, 420 9, 675 6, 855 7, 719 4, 522	240 543 1,130 96 67 127 518 1,960 386 104	9,105 6,283 4,379 4,961	1,162.60 1,431.80 317.50 1,665.30	186.01 741.74 101.86 52.11 334.06 142.93 .58.80	3,380.02 7,577.02 1,854.69 10,588.37	5, 874. 78 8, 201. 04 4, 644. 48 9, 066. 93 2, 172. 19 12, 253. 67
32 33 34 35 36 37 38 39	Creek Hughes Muskogee Mointosh Okfuskee Okmulgee Tulsa Wagoner SEMINOLE NATION,	67 64 71 60 45 41 31 59	84 310 799 766 239 202 570 215	5, 557 6, 422 4, 062 4, 538 3, 939 2, 962 3, 221 2, 742	1, 134 527 1, 829 1, 465 2, 832 2, 577 373 1, 793	6, 775 7, 259 6, 680 6, 769 6, 510 5, 831 4, 164 4, 750	494. 40 1, 082. 20 3, 012. 60 1, 694. 80 1, 120. 80 758. 70 1, 222. 60 1, 431. 90	188.46 43.31 21.95 302.60 71.66	2,934.12 1,029.65 499.68	4, 152. 44 3, 080, 03
40	Seminole	50 2, 147	222 18, 439	5, 228 180, 360	1, 671 23, 635	7, 121 222,514	363.70 79,949.59	359.89 3,418.99	4, 395.03 149, 746.09	
		,		30,000				-,		

Scholastic enumeration and distribution of \$275,000 appropriation in aid of common schools among the Five Civilized Tribes, and Quapaw Agency, Okla., fiscal year ended June 30, 1918—Continued.

ŀ		Dist	ricts assist	ed by Gov	ernment	-incorp	orated town	districts.	
N-	County		Scholas	tic enumer	ation.		Payments.		
No.	-County.	Num- ber of dis- tricts.	Indians.	Whites.	Ne- groes.	Total.	Tuition.	Total, all districts.	
1	2	23	24	25	26	27	28		
	CHEROKEE NATION.								
2 9 3 4 5 1 6 1	Adair Cherokee. Craig Delaware. Mayes. Nowata. Ottawa. Rogers. Sequoyah. Washington.	32445554766	303 264 323 162 388 192 180 604 374 258	1,083 605 1,723 581 1,175 1,939 2,505 3,728 1,234 4,988	214 109 221 167	1,356 911 2,173 743 1,563 2,345 2,685 4,531 1,829 5,413	\$1,797.60 188.70 1,512.90 905.50 2,127.80 747.10 970.00 3,334.60 1,662.60 1,577.50	\$8,965.84 9,294.00 9,138.19 11,800.31 8,994.71 43,627.76 10,333.35 7,801.69 12,451.95 4,001.12	
12 6 13 6 14 15 16 17 18 19 19 10 20 10 10 10 10 10 10	Carter. Garvin. Grady. Grady. Gefferson. Johnston. Love. Marshall Murray. McClain. Pontotoe. Stephens.	1 3 4 2 4 3 3 4 3 5 1	15 108 124 7 108 21 148 86 33 122 42	926 1,492 3,482 298 1,638 1,151 1,244 1,801 1,307 3,708 1,099	172 424 89 75 101 70 106 145 34	941 1,772 4,030 305 1,835 1,247 1,493 1,957 1,446 3,975 1,175	92.00 779.15 582.20 40.30 569.00 27.50 823.40 485.60 147.80 616.60 59.90	3, 826. 45 10, 128. 98 7, 173. 81 2, 492. 13 6, 453. 32 5, 989. 91 4, 536. 43 3, 905. 29 3, 629. 50 9, 464. 64 7, 793. 61	
23 1 24 0 25 0 26 1 27 1 28 1 30 1	CHOCTAW NATION. A toka	3 8 5 3 5 5 7 2	35 272 106 95 177 105 141 69	672 4, 125 3, 677 980 2, 014 1, 531 5, 492 777	48 40 550 116 219 592 28	755 4,437 4,333 1,055 2,307 1,855 6,225 874	161. 46 1, 662. 60 651. 10 601. 60 422. 00 509. 50 1, 393. 30 316. 10	4, 291. 86 7, 537. 38 8, 852. 14 4, 644. 48 9, 662. 53 2, 172. 19 12, 675. 67 9, 896. 78 10, 080. 86 6, 058. 18	
33 1 34 1 35 1 36 6 37 6	CREEK NATION. Creek. Hughes. Muskogee McIntosh. Okfuskee. Okfuskee. Culsa. Wagoner.	3 4 7 4 2	17 55 324 236 39 167 126	485 1, 197 1, 809 2, 036 462 13, 232 1, 017	112 76 505 551 188 1,306	614 1, 328 2, 638 2, 823 689 14, 705 1, 330	11. 80 235. 90 1, 423. 50 880. 20 126. 40 596. 30 319. 90	1, 319. 20 5, 547. 74 5, 575. 94 3, 960. 23 4, 493. 92 1, 860. 01 2, 318. 58 2, 869. 83	
40 8	SEMINOLE NATION.	2	34	601	147	782	140.00	5, 258. 62	
T	Total	145	5, 950	77, 764	6, 761	90, 475	28, 499. 41	261, 614. 08	

ANNUAL REPORT OF MINING TRUSTEES FOR CHOCTAW AND CHICK ASAW NATIONS.

McAlester, Okla., August 29, 1918.

Hon. GABE E. PARKER,

Superintendent for the Five Civilized Tribes, Muskogee, Okla.

Sir: We have the honor to respectfully submit our report for the fiscal year ended June 30, 1918.

The coal output this year, compared with that of the year ended

June 30, 1917, shows an increase of 554,568.03 tons.

The output of asphalt for this year, compared with that of the year ended June 30, 1917, shows a decrease of 2,432.08 tons.

COAL AND ASPHALT LEASES.

The following statement gives the names of individuals and companies who have approved leases covering coal and asphalt lands in the Choctaw and Chickasaw Nations, Okla.:

Coal leases.

Name of lessee.	Mines at or near—	Principal office.
Bache-Denman Coal Co.	Red Oak, Okla	Fort Smith, Ark.
Bokoshe Smokeless Coal Co	. Bokoshe, Okla	Do.
Cameron Coal & Mercantile Co		Do.
Carbon Coal Co	. Carbon, Okla	Carbon, Okla.
•	1	Kansas City, Mo., Keith & Perry Building.
Craig Coal & Mining Co	. Craig, Okla	North McAlester, Okla.
Coalgate Co Cutts, Geo. T., trustee. Degnan-McConnell Coal Co Degnar-McConnell Coal & Coke Co	. Coalgate, Okla	Coalgate, Okla. Parsons, Kans.
Cutts, Geo. T., trustee	do	Parsons, Kans.
Degnan-McConnell Coal Co	. Wilburton, Okla	Wilburton, Okla.
Degnan-McConnell Coal & Coke Co	do	Do
Denison Coal Co	. Coalgate, Okia	Denison, Tex.
Dow Coal Co	. Savanna, Okla	
Eastern Coal & Mining Co	. Wilburton, Okla	Wilburton, Okla.
Eclipse Coal & Mining Co	. Adamson, Okla	Do.
Folsom-Morris Coal & Mining Co	. Lehigh and Midway, Okla.	
Great Western Coal & Coke Co. (T. W. Wheat- ley, receiver).	Okla.	McAlester, Okla.
Gaines Creek Coal Co	. Adamson, Okla Bokoshe, Okla	Wilburton, Okla.
Gunther, Andrew P	. Bokoshe, Okla	Fort Smith, Ark.
Hailey-Ola Coal Co	Okla	,
Hartshorne Coal Co	. Hartshorne, Okla	Hartshorne, Okia.
Hazleton Coal Co	. Coalgate, Okla	Coalgate, Okla.
Indian Coal & Mining Co. 2	. Pocahontas, Okla	Asheville, N.C.
Kali-Inla Coal Co	. Cambria, Okla	Hartshorne, Okla.
Keystone Coal Co	. Coalgate, Okla	Coalgate, Okla.
Le Bosquet Coal & Mining Co.	. Hughes, Okla	Hughes, Okia.
MIIDY-DOW COSI CO	. Dow. Okis	Dow, Okla.
Missouri, Kansas & Texas Coal Co	. Wilburton, Okla	Wilburton, Okla.
Milton Cooperative Colony 1	. Milton, Okia	Guthrie, Okia.
McAlester-Choctaw Coal Co. 4.	. McAlester, Okla	McAlester, Okla.
McAlester Coal & Coke Co	. Buck, Okia	Do.
McCurtain Coal Land Co.	. McCurtain, Okla	McCurtain, Okla.
McMurray, John F.	Want Walland	North Madleston Obje
North McAlester Coal Co	North McAlester, Ukla	Modern Oble
Osage Coal & Mining Co	. Kreos, Ukia	MCVW2NEL OKE

¹ Operations of this company at Carbon carried on under working contract by Carbon Coal Co.
2 Operations of this company carried on under contract by McAlester-Alderson Coal Co.
3 Operations of this company carried on under contract by Milton Coal & Mining Co.
4 Operations of the McAlester-Choctaw Coal Co. carried on under contract by Julian Coal Co.
5 Operations of this company carried on under contract by Blue Ridge Coal Co.

Coal leases-Continued.

Name of lessee.	Mines at or near—	Principal office.
Pierce Coal Co	Adamson and Carbon, Okla.	Carbon, Okla.
Pocahontas Coal Co	Pocahontas, Okla	Hartshorne, Okla.
Phoenix Coal Co	Hailey, Okfa	McAlester, Okla.
Potesu Coal & Mercantile Co	Witteville, Okla	Poteau, Okia.
Rock Island Coal Mining Co. 1	Alderson, Bache, Gowen, Heavener, Hartshorne, Okla.	Chicago, Ill.
Samples Coal & Mining Co	McAlester, Okla	McAlester, Okla.
Southern Fuel Co	Savanna, Okla	Do.
St. Louis-Galveston Coal & Mining Co. 1	Lehigh, Okla	Oklahoma City, Okla.
Storrie & Rice	Blanco, Okla	Dow, Okla.
Superior Smokeless Coal Co	Williams, Okla	Williams, Okla.
Texas Coal Co	Hughes, Okla	Muskogee, Okla.
Thomas Coal Co	Blanco, Okla	McAlester, Okla.
Union Coal Co	Adamson, Okla	Hartshorne, Okla.

Operations of this company carried on under contract on approved leases of the C. O. & G. R. R. Co. Operations of this company carried on under contract by Oklahoma Mining & Stripping Co.

Asphalt leases.

Name of lessee.	Mines at or near—	Principal office.
American Mineral Wax Co	Woodford, Okla	New York, N. Y. McAlester, Okla. Ardmore, Okla. Jumbo, Okla. Do.

RATES OF ROYALTY.

The rate of royalty on coal is 8 cents per ton, mine run.

The rate of royalty on asphalt is 60 cents per ton on refined and 10 cents per ton on crude.

AMOUNT OF COAL MINED.

The total amount of coal mined and the royalty paid thereon by each operator in the Choctaw Nation, Okla., during the fiscal year ended June 30, 1918, is shown in the following table:

Total amount of coal mined and royalty paid thereon.

Operator.	Tons.	Royalty.
Bache-Denman Coal Co Bokoshe Smokoless Coal Co Cameron Coal & Mercantile Co Carbon Coal Co	12, 989. 55 47, 832. 00	\$1,688.32 1,039.16 3,826.56
Central Coal & Lumber Co. Coalgate Co. Craig Coal & Mining Co. Cutis, Geo. T., trustee. Degnan-McConnell Coal & Coke Co. Degnan-McConnell Coal Co. Denison Coal Co.	184, 750, 80 104, 187, 00 9, 113, 00 43, 510, 00 25, 936, 00	14, 780. 06 8, 334. 96 729. 04 3, 480. 80 2, 074. 88 10, 333. 68
Dow Coal Co Eastern Coal & Mining Co Ectinss Coal Co	66, 161. 00	5, 292. 88
Folsom-Morris Coal & Mining Co. Gaines Creek Coal Co	51, 279.00	31, 441. 36 4, 102. 32 2, 668, 60
Gunther, Andrew P. Hailey-Ola Coal Co. Hartshorne Coal Co. Hasleton Coal Co.	175, 472, 00	14,037.76 176.52 2,717.44

Total amount of coal mined and royalty paid thereon—Continued.

Operator.	Tons.	Royalty.
Indian Coal & Mining Co	85, 427, 40	\$2, 834, 19
Kali-Inla Coal Co.	89, 503, 30	7, 160, 26
Kali-Inla Coal Co	30, 057, 00	2, 404, 56
Le Bosquet Coal & Mining Co	6, 440, 90	515.27
Milby-Dow Coal & Mining Co	129, 978. 50	10, 398. 28
Milton Cooperative Colony	54, 198.00	4, 335. 84
Missouri, Kansas & Texas Coal Co	154, 473.00	12, 357. 84
Mc Alestér Coal & Coke Co	56, 445. 00	4, 515. 60
McAlester-Choctaw Coal Co		544.01
McAlester-Edwards Coal Co	74, 494. 00	5, 959. 52
McCurtain Coal Land Co	190, 728.00	15, 258. 24
McMurray, Jno. F		
North McAlester Coal Co	21, 435.00	1,714.80
Osage Coal & Mining Co		14, 835. 76
Panama Coal Co	590.00	47. 20
Phoenix Coal Co		
Pierre Coal Co	14, 755. 00	1, 180. 40
Pocahontas Coal Co		
Poteau Coal & Mercantile Co	10, 758. 00	860.64
Rock Island Ceal Mining Co	692, 460. 00	55, 396. 80
Samples Coal & Mining Co	56, 813. 00	4,545.04
Southern Fuel Co	88, 097. 00	7, 047. 76
St. Louis-Galveston Coal & Mining Co	74,981.00	5, 99R 48
Storrie & Rice	504.00	40.32
Superior Smokeless Coal Co		
Texas Coal Co	22, 743. 00	1,819.44
Thomas Coal Co	4, 835. 00	380.90
Union Coal Co	55, 715. 00	4, 457. 20
Total	3, 401, 564. 15	272, 125. 11
Months.	Coal mined (tons).	Royalty.
July, 1917. August, 1917. September, 1917. October, 1917.	289, 412, 80 274, 667, 90 244, 948, 85 272, 151, 75	\$23, 153. 02 21, 973. 43 19, 595. 90 21, 772. 14
November, 1917	277, 074. 15	22, 155, 93
December, 1917.	272, 000. 35	21.760.02
January, 1918	320, 834. 55	25, 666. 76
February, 1918	327, 628. 80	26, 210. 30
March, 1918	268, 636. 05	21,490.89
April, 1918	267, 295, 90	21, 383, 67
May, 1918	311,005.00	24, 880. 40
June, 1918	275, 908. 05	22, 072. 65
Total for year ended June 30, 1918	3, 401, 564, 15	272, 125. 11

COMPARISON OF COAL OUTPUT.

The coal mined this year compared with that mined in 1917 shows an increase of 554,568.03 tons, as shown by the following statement:

	Tons.
Total coal mined, year ended June 30, 1917	2, 846, 996, 12
Total coal mined, year ended June 30, 1918	3, 401, 564, 15
,	
Increase	554, 568. 03

COMPARISON OF ASPHALT OUTPUT.

The asphalt mined this year compared with the output for the year ended June 30, 1917, shows a decrease of 2,432.08 tons, as shown by the following statement:

Total asphalt mined, year ended June 30, 1917	2, 432. 08 0. 00
Decrease	2, 432. 08

COAL AND ASPHALT ACREAGE LEASED.

The following statement shows the names of lessees of coal and asphalt lands in the Choctaw and Chickasaw Nations, Okla., and the numbers of acres and leases operated by each as of June 30, 1918:

Coal acreage.

Name of lessee.	Number of leases.	Number of acres.
Bache-Denman Coal Co.	1	960.0
Bokoshe Smokeless Coal Co.	i il	640.0
Sameron Coal & Mercantile Co	l î	960.0
Serion Coal Ca	1 1	640.0
Carbon Coal CoCentral Coal & Lumber Co	1 7	6, 720, 0
Coligate Co.	1 2	1,920.0
Traig Coal & Mining Co.		1,920.0
Title Com G Milling Co	1 61	6, 280. 0
Outis, Geo. T. (trustee). Degnan-McConnell Coal & Coke Co.	5	4.800.0
Degman-McConnell Coal Co.	l il	1,000.0
Denison Coal Co.	i	960.0
Dow Coal Co	1 2	
Eastern Coal & Mining Co.		1,280.0
Sclipse Coal & Mining Co.		1,960.0
Folsom-Morris Coal & Mining Co.	10	40.0
OSDIT-MOTTIS COSI & MILITY CO.	10	9,860.0
raines Creek Coal Co	1 1	160.0
rest Western Coar & Milling Co.	3 1	3,010.0
Junther, Andrew P	1 1	605-1
Hailey-Ola Coal Co		3,960.0
Isrtshorne Coal Co		40.0
Hauleton Coal Co		880.0
ndian Coal & Mining Co.		960-0
Kall-Inla Coal Co.	2	480-0
Keystone Coel & Mining Co.	1 1	340-0
e Bosquet Coal & Mining Co.	1 1	960-0
fazzard Coal & Mining Co filby-Dow Coal & Mining Co	1 1	960.0
aliby-Dow Coal & Mining Co	2	2,560.0
filton Cooperative Colony dissouri, Kansas & Texas Coal Co.	1 1	160 0
issouri, Kansas & Texas Coal Co	1	960-0
IcAlester Coal & Coke Co.		2,080.0
(cAlester-Edwards Coal Co		2,560.0
AcAlester-Choctaw Coal Co		960.0
AcAlester-Galveston Coal & Mining Co		480.0
fcCurtain Coal Land Co	7	6,680.0
deMurray, Jno. F	5	4,800.0
North McAlester Coal Co	1	
Osage Coal & Mining Co	7	7,320.0
anama Coal Co	1	960.0
hoenix Coal Co	1	444.9
Pierce Coal Co	1 1	360.0
Ocahontas Coal Co	1 1	960. 0
otesu Coal & Mercantile Co	1 1	960. 0
Rock Island Coal & Mining Co	19	17, 760, 0
amples Coal & Mining Co	2	1, 240, 0
outhern Fuel Co	l īl	1, 890, 0
outhern Fuel Co. t. Louis-Galveston Coal & Mining Co.	1 2	1,890.0 1,920.0
torrie & Rice	1 1	640.0
Superior Smokeless Coal Co	l îl	637. 4
Texas Coal Co.	l il	960. 0
Thomas Coal Co	l il	627. 9
Inion Coal Co		640.0
	<u>-</u> '	
Total	124	111, 315. 4

Asphalt lands.

Name of lessee.	Number of leases.	Number of acres.
American Mineral Wax Co. Brodnax, W. Downard Asphalt Co. Gilsonite Roofing & Paving Co. Rock Creek Natural Asphalt Co.	1 1 1 1	960 960 360 960 640
Total	5	3,880

According to the foregoing statements, there were on June 30, 1918, 124 coal leases, covering 111,315.42 acres, all of which are in the Choctaw Nation, and 5 asphalt leases, covering 3,880 acres, all of which leases are in the Chickasaw Nation, or a grand total of 129 coal and asphalt leases, covering a grand total of 115,195.42 acres.

On October 30, 1917, the department canceled the asphalt lease of the Choctaw Asphalt Co. covering 960 acres in the Choctaw Nation.

On May 29, 1917, the department approved the lease of the Thomas Coal Co., covering 627.94 acres of the unleased segregated coal area of the Choctaw Nation. Quadruplicate copy of the lease, together with notice of approval by the department, was received by this office on August 8, 1918.

On May 29, 1917, the department approved the lease of the Bokoshe Smokeless Coal Co., covering 640 acres of the unleased segregated coal area of the Choctaw Nation. Quadruplicate copy of said lease, together with notice of departmental approval, was received by this

office on March 30, 1918.

On August 1, 1917, the department approved the assignment from J. S. Downard to W. Brodnax of one asphalt lease consisting of 960

acres, in the Chickasaw Nation.

In the supervision of mining operations on the segregated coal and asphalt lands belonging to the Choctaw and Chickasaw Nations the Mining Trustees are advised by the local representative of the Bureau of Mines in regard to the proper methods of mining to be followed on the segregated lands. The Mining Trustees check the royalty returns from the various lessees operating mines on segregated lands from the books kept by the lessees at the mines and from the weigh sheets of the miners. From time to time occasion arises for the exercise of proper mining judgment in regard to location of proper operation of mines on segregated lands, and on such occasions the trustees and the local representative of the Bureau of Mines collectively consider these questions.

Up until the present time the amount of coal received by the mines operating on segregated lands varies from 45 to 50 per cent, and in some extreme cases as much as 60 per cent is recovered, but this is unusual, the average recovery being about 50 per cent. By such recovery is meant the proportion of coal actually mined and loaded on railroad cars in proportion to the amount in the seam in which the mining operations are being carried on. If a proper system of mining were followed there is no question but that the recovery would be at least 80 per cent, and the nations would receive at least 30 per cent more royalty than they do under present mining systems. It should be remembered that the 50 per cent of the coal seam which is left in the ground can not be recovered, at least not under present market conditions, and not only is this coal lost to the nations forever, but the royalty is also lost.

In order to realize the fullest possible returns of royalty all of the coal in the seam should be mined by machines, as hand mining is at present impracticable. To this end it would be to the advantage of the Choctaw and Chickasaw Nations, who are owners of the coal, if the properties were in the hands of one or more companies of ample capital. As long as mining by small operators of insufficient capital is permitted there will be a loss of coal, and to some

extent a loss of life, due to improper and wasteful mining methods. We are of the opinion that the Mining Trustees should be authorized to restrict the number of openings made in the coal mines on segregated lands in order that the production may not be increased to such an extent that the market will not absorb it profitably. Such restrictions can be wisely imposed by the trustees, acting under the direction of the Indian Office.

In the supervision of mines on segregated lands in Oklahoma cognizance should be taken of labor conditions, especially where restrictions are imposed upon mining operations, such as operate to the detriment of the owners of the coal. The department should also use its influence in order that the lessees operating mines on Indian lands should be accorded proper freight rates for transportation of their coal to the market. In the operations of oil and gas wells on Indian lands pipe line companies have always made concessions to the interest of the Indian owners, and it is thought that the railroads will, in like manner, make concessions to the lessees of mines on Indian lands.

Along with our regular duties of supervising the leases on segregated coal and asphalt lands of the Choctaw and Chickasaw Nations during the past fiscal year, we have assisted the Superintendent of the Five Civilized Tribes in the sale of the surface at a number of different points over the segregated coal and asphalt area, and have also assisted the appraisers who were appointed under the act of February 8, 1918, to appraise coal and asphalt mineral belonging to the Choctaw and Chickasaw Nations, furnishing them with such information as we had in the office and accompanying them over the entire area.

Respectfully submitted.

WILLIAM R. McIntosh,
Mining Trustee of Choctaw Nation.
J. Hamp Willis,
Mining Trustee of Chickasaw Nation.

REPORT OF THE GOVERNOR OF ALASKA

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TERRITORY OF ALASKA, OFFICE OF GOVERNOR, Juneau, October 15, 1918.

SIR: I have the honor to transmit herewith my annual report as Governor of Alaska, for the fiscal year ending June 30, 1918, together with appendixes relevant to the Territory.

Respectfully,

THOMAS RIGGS, JR., Governor.

The SECRETARY OF THE INTERIOR, Washington, D. C.

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REPORT OF THE GOVERNOR OF ALASKA.

GENERAL CONDITIONS.

While the industry of the Territory during the past year has shown great progress along certain lines, notably in the production of fish, still, in the main, Alaska has suffered intensely from the great war. We have none of the unnatural war industries, such as giant shipyards or munition plants, with their greatly increased scale of wages. Our young men have flocked to the colors in great numbers, either through the draft or enlistments; our mechanics have answered the call of the Government for skilled labor and a large proportion of the population, seized by the general restlessness of the country, has left for the scenes of greater excitement and activity. As a result, the normal industry of the country has been paralyzed; mines, fisheries railroad construction, shops, and ships are all working with insufficient forces. It is all part of Alaska's contribution to the welfare of humanity; all is given freely and fully, and, if need be, greater sacrifices will be made without question or complaint.

The greatest loss has been in man power. It is safe to predict that by the end of the calendar year scarcely 18,000 white people will be left in the Territory. Practically every outgoing steamer is loaded to capacity, and when the seasonal industries of fishing, placer mining, and railroad construction are finished for the year the exodus will be almost in the nature of a stampede. The loss of population is particularly noticeable in the interior and on the Seward Penin-

sula.

Under such circumstances new development is practically impossible nor will relief be found until the Teutonic menace to civilization Then it is that we may hope for a return of prosperity brought to us by those fine young Americans now doing their duty so nobly on the battle fields of France. It is reasonable to suppose, following the declaration of peace, that men drawn from the more settled and staid portions of the United States and thrown into the atmosphere of adventure and outdoor life will not be content to settle down to their former humdrum existence of the factory, office, or farm, but that they will seek a wider horizon and greater possibilities here than offered by their return to former occupations. I look for a great immigration when once the armies of the world are disbanded, and in fact even now I am in receipt of inquiries from soldiers, not only of our Army but of the British Army, for information relative to possible occupation. We should be prepared to assist our future residents. As will be shown, we must have ample and immediate governmental help to make the Territory an attractive field to the. future resident.

GOLD MINING.

A large proportion of our people are dependent upon the success of gold mining. Undoubtedly this industry has been the hardest hit of all Alaskan enterprises. The price of all commodities except gold has soared heavenward, while the price of gold with its greatly increased cost of production and greatly decreased purchasing power

has remained stationary.

At present there are few working placer mines of the fabulous richness which drew the attention of the world to Alaska. Instead, we have now the lower grade alluvial gravels with their more even distribution of gold, which are worked along business principles. Such mines are shutting down as rapidly as possible, awaiting the day when prices of supplies and equipment are once more normal and when labor is more plentiful. Practically all of the placer mines are found in the interior of Alaska and on the Seward Peninsula. and it is these sections which are the greatest sufferers in all lines.

Lode mining is found more in the coastal district with all of the The largest mines are those in largest mines in the first division. the vicinity of Juneau and are working on a grade of ore in which margin of profit is very close. Owing to the low grade of ore, the mines are unable to pay wages such as will attract miners, with the result that they can not obtain men in sufficient numbers to more than run the mills on one shift of eight hours, and even with only one mill shift, not enough miners can be procured to break the requisite

amount of ore without drawing on the mine reserves.

If the gold-mining industry is to be preserved for Alaska, yes, even of the United States, there must be some form of encouragement offered by the Government, or quantity production of gold will practically cease. This encouragement could come in the form of a readjustment of the method of paying for gold bullion. To arrive at the most satisfactory method of making this readjustment there should be some advisory body. I should suggest a committee composed of a representative of the Treasury Department, a representative of the Bureau of Mines and a representative of the Federal reserve banks.

TRANSPORTATION.

All transportation tariffs affecting Alaska have been materially increased during the year. The effect has not been particularly noticeable in the matter of foodstuffs, although the great increase in living expenses has been generally attributed to this score. Where in truth a great hardship on the consumer has been worked is in the tariff advance on heavy commodities, such as mine and mill equipment and supplies, coal, hay, and oats, and fuel oils.

The second division has been particularly affected by the high

cost of coal. The going retail price of coal at Nome in the treeless country is \$30 per short ton, with the probability of an advance to \$35 or even \$40 before the winter sets in. With no other authority than newspaper reports it has been noted that the operations of railroads in the United States resulted in a loss to the Nation of \$290,000,000 during the first six months of 1918. As transportation is vital to the growth of the country and even to its very existence as

a commercial factor it is my firm belief that the Government may well suffer a comparatively small financial loss for the sake of aiding a Territory which furnished trade during 1917 to the United States proper in excess of \$131,000,000.

The exact trade figures for the various Territories with the United

States are here given for sake of comparison:

Total value of exports and imports to and from the United States 1917.

Alaska	\$131, 767, 788
The Philippines	126, 524, 812
Porto Rico.	124, 461, 408
Hawaii	123, 039, 441

Although Alaska is thus shown to be of more value than any other Territory to the United States it seems to receive the least consideration.

My proposal is that the United States shall take over, for the period of the war and until such time as conditions shall have readjusted themselves to the prewar status, all transportation by steamships or railroad lines, to and in the Territory of Alaska, charging such freight and passenger tariffs and maintaining such schedules as will allow and encourage the continued development of the Territory. If such a course can not be taken then at the very least there should be established at the port of Seattle, Wash., and at Juneau, Alaska, dispatchers who shall regulate the placing of cargoes on the carriers of the various steamship lines so that there shall not be unnecessary duplication of call, and so that vessels besides being placed on runs and schedules to best suit the demands of the country may also have an equitable allotment of space made to all consignors. By the establishment of schedules the fresh-fish industry will be greatly fostered and by the allotment of cargo space it will be possible to afford a comparatively large Alaskan market for Alaska coal.

The Department of Commerce has issued instructions that hereafter fish may be shipped between ports in Alaska and in the United States in foreign bottoms through the remission of penalties imposed therefor. This action was brought about by an existing danger being shown by the governor and the Food Administration of fish being spoiled and wasted, due to irregular steamship service; and that all vessels, both domestic and foreign, should be permitted co carry fresh fish, the prompt handling of which is imperative.

With competing lines it is natural that there shall be little attention paid to conflicting sailing schedules, and there must be a resultant loss to the companies themselves. This particularly is true at minor ports. I have seen three vessels at Skagway waiting to be unloaded by the one longshore crew. At St. Michael and Nome I have again seen three vessels in port at the same time with only one longshore crew available at each place. One of these vessels was under demurrage for three weeks, due in part, however, to a storm which made unloading impossible for the time. Such confusion in schedule is not only a hardship to the vessel but also connecting river and rail lines and to the longshore crews. Shipping to and from Alaska should be taken promptly in hand, so that there may be uninterrupted service given at every point. My preference of the two suggested methods of handling transportation lies with Government operation until the chaotic and world abnormal conditions cease.

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AGRICULTURE.

It is hardly possible for the immediate present that agriculture can be considered in Alaska to any great extent, apart from an existing mining and fishing population. Farmers are dependent upon local markets and, owing to a depleted population, are facing a serious condition. Farming communities are those which make for the stability of the country. They should be given every encourage-ment and assistance. I must confess that heretofore I have never been greatly impressed with our farming possibilities, having always been connected with mining or engineering enterprises, but now I am glad to admit my error and to be able to state that I believe Alaska can be made almost absolutely self-supporting in the matter of food. I find in the Tanana Valley that the experiment stations of the Department of Agriculture have developed a Siberian wheat which has successfully ripened for four successive years and may not be termed hardy to the country. This year 35 farmers of the Tanana Valley have planted 50 acres in this wheat and next season with the seed so raised, will probably plant in the neighborhood of 500 acres. I shall use every endeavor to establish a small flour mill in the farming center so that by 1920 every pound of flour used in the interior of Alaska may be from locally ground wheat.

The vegetable growth of Alaska is wonderful. A market must be supplied outside of Alaska, and this can be found only by reducing vegetables to a dehydrated form. A modern dehydrating plant is inexpensive. The most promising present market will be found in

northern Siberia.

Farming is most highly developed in the Tanana Valley, but the

Matanuska Valley is steadily forging to the front.

Until markets are developed for agricultural products I do not advocate a too speedy rush to the farm, but as our population increases, and as new markets are found, farming will undoubtedly become one of our greatest assets.

POPULATION.

A study of the census report of 1910 in conjunction with the figures of arrivals and departures furnished by the collector of customs would seem to indicate that on June 30 there was a population of approximately 40,000 white people in Alaska. The manager of the Alaska Red Cross membership drive, in December, 1917, after extensive correspondence with postmasters and commercial organizations, made an approximation of 25,200 persons. He estimates that there will be a loss of 10,000 persons during 1918, which closely coincides with the estimate of the collector of customs and of myself. My own estimate of the population for June 30 is 28,000 white persons which, when the yearly exodus takes place, will reduce permanent population to not more than 18,000.

It would seem that the figures of the census of 1910 and of the collector of customs must be correct, yet it also seems strange that there should be 12,000 white people in Alaska who can not be accounted for.

Unless greater encouragement than ever before is offered to the settler and investor in Alaska, the Territory will practically become depopulated.

From what information I can gather from missionaries and schoolteachers, I judge that among the natives the birth rate now exceeds the death rate.

NATIVES OF ALASKA.

I have been devoting considerable time to the study of the various problems confronting the natives, but the tribes are so widely scattered and the conditions under which they live are so varied that at the present time I do not feel justified in going into the subject at length.

The Bureau of Education is doing splendid work, especially among the Eskimos who have been taught the value of reindeer herding.

As a result many natives have become comparatively wealthy.

The various missionary bodies have been requested for reports on their activities, but to date only partial replies have been received and so can not be fully commented on. I have, however, visited a number of the mission schools and can testify as to the excellence of their endeavors and to the really constructive results accomplished.

ALASKA NATIVE SCHOOL SERVICE.

The schools for native children in Alaska are under the supervision of the Bureau of Education of the Interior Department, being directly supervised by five district superintendents in Alaska, responsible to the chief of the Alaska Division of the Bureau of Education, with headquarters in Seattle. For the past year these schools numbered 71, two of which were summer schools having a total enrollment of

approximately 3,500.

The majority of these schools are located in native villages, each of which is usually in charge of a man and wife. On account of the variety of the work in connection with a native school the Bureau of Education finds it advantageous to appoint married people. Not only must these Federal employees be capable of teaching school, but they must also possess practical abilities which will enable them to promote native industries, domestic arts, personal hygiene, social welfare, and in general improve the living conditions of the adult as well as the school population of the village and the vicinity.

The schoolroom and living quarters of the employees are usually under one roof, forming a center from which quite often there issues

the only uplifting and civilizing influence in that community.

There has been and still is an attitude of aloofness toward the native population by the white people of Alaska which is not conducive to rapid advancement by the former race. Quite often the bureau employees and the missionaries are the only whites who seem to have any interest in the natives' welfare. Until a tolerant and sympathetic attitude is generally exhibited by the white race, the natives will be constantly handicapped in their efforts to reach a higher plane of civilization. The natives of Alaska are unquestionably an asset to the Territory, and the intelligent development and improvement of this asset will be remunerative to Alaska in many ways. These native Alaskans are self-reliant, law-abiding, and honest, and the only help they have had from the Federal Government is the establishment of schools in the larger villages, a little medical relief, and the introduc-

tion of reindeer among the northern and western tribes. This assistance has been given them through the organization of the Alaska Division of the Bureau of Education.

Because of the fact that the native population is very scattered and the villages have rarely over 200 or 300 inhabitants, and generally much less than that, the bureau's educational efforts have been rather hampered. Were the natives located in large settlements of 500 or more, their education, medical relief, and industrial advancement would be simplified considerably. To this end the bureau has gradually been working toward attracting the natives to selected sections · of land which have been reserved for the exclusive use of the natives and the bureau. These reserves are not to be confused with the Indian reservations of the States as they in no way interfere with the liberties and freedom of the native inhabitants thereon. By establishing industries on these reserves which will give the natives work the year around, schools that have more than the elementary grades, and by placing the care of their physical welfare in the hands of trained medical employees, the bureau will be able to secure maximum benefits to the natives. As long as the bureau's work is confined to numerous small villages, only minimum results can be expected at a heavy cost per capita. At the present time the small schools do not justify grammar grades, and it has been customary for advanced native children to enter the Indian schools of the States. usually results in physical breakdowns due to the change of climate, environment, and absence from home. It should be possible for native children to advance as far along educational lines as they desire without the necessity of leaving home. This can come only when the natives are persuaded to live in larger communities which will justify the establishment of larger and more complete schools. The concentration of the bureau's work on large villages, made possible through the favorable conditions of the reserves, will hasten the arrival of the day when the native of Alaska will take his place along with his white brother in the affairs of the Territory.

That the natives are loyal to the United States has been especially proved the past year through the work which the natives have contributed for the Red Cross and the purchases they have made of Liberty bonds and War Savings Stamps. Through the agency of the teachers, Red Cross auxiliaries have been established in many native villages, and the zealous and untiring work of these native organizations is a great credit to them. The work done in knitting, sewing, etc., for the Red Cross is equal to the best work done by white

organizations.

The purchase of bonds and stamps has not lagged behind the Red Cross work, and while complete statistics of the Bureau of Education are not yet available on this subject, the reports from 11 native villages in southeastern Alaska show that \$12,320.85 was contributed toward war-relief funds and that \$9,700 worth of Liberty bonds and \$283.70 worth of stamps were purchased. In these villages there are 1,303 Red Cross members, and during the year 16 sweaters, 328 socks, 113 wristlets, 220 gun wipes, 30 scarfs, and 12 moccasins were made for the Red Cross. It has been very gratifying to hear the numerous expressions of regret by natives throughout the Territory that they should have been exempted from the operations of the draft law, and

it is hoped that the matter will be adjusted so as to allow the natives to share in this as well. Their participation will be a credit to the

Territory, as have been their other war activities.

The need of a power boat for the bureau's work has been especially emphasized this year. The schools have been supplied this season with the greatest difficulty, and the shipments to the various stations have been necessarily haphazard and unsatisfactory. A notable example of the difficulties encountered is the shipment of hospital supplies and subsistence stores for teachers and a physician into Bristol Bay, which were to have been sent in by the August trip of the Dora. This trip, the last of the season for that section, was suddenly canceled and no other means was available. Since the supplies were imperatively needed by the stations in Bristol Bay, arrangements were finally made with the Pacific American Fisheries to carry them to King Cove, from which place the Coast Guard cutter Unalga is expected to have taken them to Unalaska, where they are to be transshipped to Bristol Bay via the Admiral Watson. Whether the needed supplies reached their destination is still a matter of conjecture. With a boat of its own, the bureau would have its shipping problems very much simplified. Such a boat would be used during the summer for the shipment of supplies and transportation of employees, who now must quite often be sent in small gas boats and vessels of doubtful seaworthiness. The bureau should not have to be placed in the position of asking its employees, who are self-sacrificing enough to enter its service to risk their lives and property in reaching their stations. After completing the summer's shipping, the boat would be available as a training ship at the bureau's stations in southern and southeastern Alaska, where navigation is open throughout the year. Thus the boat would be put to useful service the year around. It is to be hoped that Congress will promptly make possible such a boat for the bureau.

To a considerable extent, the questions arising in connection with the fishing industry of the territory involve the consideration of the natives' welfare. The native people of Alaska are primarily fishermen. They are an important factor in the industry, and fishing to them is essentially a means of livelihood. The elimination of fish from the natives' diet means the omission of the greater part of his natural food, resulting in actual want and serious illness. Consequently, the question of commercial fishing in the rivers of Alaska is of vital interest to the native. The past year has seen the partial closing of the Copper River to commercial fishing. Whether the regulations issued are sufficient to result in reestablishing the food supply of the Copper River Indians will be ascertained after they have been in force a reasonable length of time. The establishment of a cannery at Andreafsky, on the lower Yukon, brings up a similar While one or two canneries would probably not seriously question. interfere with the supply of fish for the upper Yukon, it is very probable that the number of canneries would increase each year until the river would become overfished, as was done in the Copper River. If commercial fishing must be permitted in rivers, a policy of limited fishing is the only one that will safeguard the food supply of the natives.

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ALASKA NATIVE MEDICAL SERVICE.

In the list of duties for the teacher of a native school there appears that of medical relief, which assumes considerable proportions if the village is of good size. Some of the more important centers of native population are provided with trained nurses, but at the majority of villages the teacher must attend to the physical welfare of the inhabitants. Each school is provided with a very complete standard medical set, consisting of the more common medicines and medical equipment, with a view toward enabling the teacher to relieve the less serious ailments and afford temporary relief in cases requiring the attention of a physician. Each station is also provided with a medical book written especially for use in connection with the medical equipment furnished the schools. Through necessity some of the teachers become quite expert in this phase of their work. In this they are aided materially by the fact that the natives have marvelous recuperative power and quite often only a little medical assistance is necessary to bring them back to health.

During the past year the Bureau of Education also operated a very complete 20-bed hospital for natives at Juneau, which was kept filled the greater part of the year. The hospital at Kanakanak, on Bristol Bay, was enlarged and completely equipped for 11 beds capacity. A modern hospital was erected and placed in operation at Akiak, on the Kuskokwim. Its capacity is also 11 beds, together with comfortable quarters for the staff. A small hospital, in charge of a physician and nurse, was also maintained at Nulato, on the Yukon. In addition to the hospitals, physicians were stationed at Nome and Cordova, and contracts were had with resident physicians at Ellamar, Candle, and Council to care for cases in their localities. Besides a traveling nurse for southeastern Alaska, nurses were appointed at St. Michael, Una-

lakleet, and Metlakatla.

In view of the thousands to be reached and the vast territory to be covered it is readily apparent that the above means of meeting the medical needs of the natives is wholly inadequate. The bureau's appropriation of \$62,500 is just half of the minimum amount needed during normal times to make an effective beginning. On account of the great advance in prices of drugs, etc., not less than \$150,000 should be appropriated for this year. Educational advantages are of little benefit to the native if he is not assisted at the same time in keeping his body healthy, so as to enable him to make the best possible use of that which his mind acquires. The appropriations for education and medical relief of the natives must necessarily go hand in hand and the proper equilibrium maintained between them.

This fall the bureau plans to open a tubercular sanitarium at Haines, establishing the same in the building formerly occupied by the Presbyterian Mission Hospital. To avoid a duplication of work in southeastern Alaska the mission board has turned this building over to the Bureau of Education for its use in maintaining a sanitarium, and the bureau has relinquished its medical work at Hydaburg and Klawock, where the mission board will be in exclusive charge of the medical work among the natives. The arrangement should be mutually advantageous. The establishment of a tubercular sanitarium has been planned for several years and will fill a long-felt need in southern and southeastern Alaska. In the past tuberculosis,

which is quite prevalent among the natives, has been very hard to combat since isolation of the cases was impossible. The spread of the disease was therefore unavoidable. However, with a sanitarium at hand, to which the patients can be sent for proper diet, treatment, and instruction, a long step will be made toward checking the disease in the section which the Haines establishment will serve.

With a hospital at Juneau for the surgical cases, and a sanitarium at Haines for tubercular patients, southeastern Alaska will be served very effectively. It is to be hoped that Congress will soon enable the Bureau of Education to make similar provisions for the other sections of Alaska, which are equally in need of medical assistance.

ALASKA REINDEER SERVICE.

In 1892, and continuing for 10 years, 1,280 reindeer were imported into Alaska from Siberia. From this nucleus there are to-day in Alaska over 110,000 reindeer, distributed over all of western Alaska from the Alaska Peninsula on the south to Point Barrow on the north. On account of the unavoidable delays in securing reports from all the herds, complete statistics for the year are not yet available. The Bureau of Education report for the year ended June 30, 1917, shows a total of 98,582 deer in Alaska, distributed among 98 herds; 67,448, or 69 per cent, were owned by natives; 23,443, or 23 per cent, by Lapps and whites; 4.645, or 5 per cent, by missions; and 3,046, or 3 per cent, still remain Government property. The ownership of the native deer was divided among 1,568 natives, of whom 170 were apprentices and 1,398 owners and trained herders. income from their deer amounting to \$97,515 was realized by them, exclusive of hides and meat used by themselves. The income accruing to owners other than natives amounted to \$35,002, making a total income realized from the reindeer industry of \$122,517.

Reindeer were introduced into Alaska by the Government in order to insure a food supply and economic independence for all the natives of Alaska living in sections where deer could be propagated. The industry is now firmly established, the widespread distribution of the deer being the result of a system of apprenticeship whereby the most likely natives are taken on as apprentices by the herders for four years, receiving during that time 6, 8, 10, and 10 deer for the first, second, third, and fourth years, respectively. If at the end of the fourth year the apprentice has served satisfactorily, he becomes a herder, assuming charge of his deer. He in turn is required by the rules and regulations to take on apprentices in the same manner that he served as apprentice. The perpetual distribution among the natives is thereby assured.

Since the deer were imported for the benefit of the natives, the industry has been restricted to them as much as possible. No native is allowed to sell female deer except to another native or the Government. Until 1914 no white men had acquired deer, except the Laplanders, who had been brought to Alaska at the time of the introduction of reindeer into Alaska for the purpose of teaching the natives the art of herding. For their services the Lapps were given reindeer without restrictions as to future sales of female deer. By this means it was possible for Lomen & Co., of Nome, to acquire 1,200 deer in 1914. The next two years this company made addi-

tional purchases from the missions at Golovin and Teller, the latter of which has since been the subject of litigation by the Department of Justice at the request of the Interior Department. The case is based on alleged violation of contract by the Teller mission, which, in common with other missions in Alaska, received deer from the Government for the purpose of assisting in the distribution of deer among the natives. All missions have always been held by the department to be under the same restrictions as native owners. The final outcome of the Teller case will determine the department's action regarding the Golovin sale, which is similar to the Teller case, except that the Golovin contract appears to have been an oral one made in the early days of the industry, the exact terms of which can not be definitely established. The decision in the Teller case will also have an important bearing on all deer now owned by the missions. The details of the above have appeared in previous issues of the annual report of this office. Up until the present the industry has been supervised by local representatives of the Bureau of Education, but it has now grown to such proportions that a scientific management is imperative. At least two or three experienced stockmen should be placed in the field to give their entire time to the study of the problems of the industry. Diseases of the deer should have careful attention, as well as scientific herding, breeding, butchering, and marketing. The reindeer of Alaska represent an immense food supply, not only for the Territory, but for the entire country. The economical and permanent entry of reindeer meat upon the market of the country is a problem that will require much study and careful management. The present high prices of beef, pork, and mutton make this an opportune time to take up this subject energetically. It is important to the country, as well as to the Territory, that the increased appropriation asked for by the Bureau of Education be allowed by Congress in order to make possible the employment of the experts mentioned. Undoubtedly the white owners of herds will cooperate.

Reindeer are cursed with warble flies, which were evidently brought to Alaska with the original herd. If the warble pest could be eliminated there is no reason why a glove industry equal to that of Sweden

could not be established right in Alaska.

of 37 per cent)_____

The following table shows what a financial success this phase of Government enterprise has been during the 25 years since its inception:

Valuation of 67,448 reindeer owned by natives in 1917, at \$25 each Total income of natives from reindeer, 1893-1917 (25 years) Valuation of 31,134 reindeer owned by missions, Laplanders and	\$1, 686, 200 568, 352
other whites, and Government, 1917	778, 350
deer, 1893–1917	214, 443
Total valuation and income	
Gain (926 per cent for 25 years, or an average annual gain	

Perhaps the attitude of the Bureau of Education is somewhat at variance with my own, but I believe that where the reindeer industry can be encouraged among the whites without detriment to the natives every assistance should be offered, as it is only through the white owners and shippers that it will be possible to add to the food supply of the country at large. With the herds scattered over such a large extent of territory, and with such great distances to travel to reach the few shipping points on our west coast, it will soon become necessary to establish cold-storage plants at certain points in order to preserve the meat of the surplus deer. In this the whites interested in the industry can be of greatest service to the native deer men. ernment has no funds with which to create a market, nor with which to preserve the meat for the market, so that this particular branch of the industry must naturally fall to the whites.

FISHERIES.

The development of the fisheries industry of Alaska as a whole was greatly accelerated in 1917. The investment, the quantity of the output, and its value were all greater than in any preceding year. The increased output was of national importance, coming as it did

at a time when an increase in the food supply was so essential.

In July, 1917, the Bureau of Fisheries, with the assistance of the War Department, established a fishery intelligence service for the coastal towns where there are offices of the Washington-Alaska Military Cable and Telegraph System. Agents of the Bureau of Fisheries at Seattle and Ketchikan assemble scheduled information regarding market prices of fishes, which are then transmitted to the various towns.

Attention has also been given by the Bureau of Fisheries to the removal of natural obstructions in streams for the purpose of enhancing their value as spawning grounds for salmon. Some progress has been made to this end. The introduction of the Scotch method of curing herring, through distribution of literature and the giving of instructions by demonstrators in the field, is taken up in greater detail under the subject of herring. Dr. C. H. Gibert, of Stanford University, has continued to devote a portion of his time to the investigation of certain scientific and practical fish-cultural problems.

The enforcement of the law and regulations for the protection of the fisheries was furthered in the season of 1917 through the use by the Bureau of Fisheries of two new patrol boats built especially for the purpose. Another advance was made in the season of 1918 when a policy was adopted of employing stream watchmen who individually give continuous supervision to a limited but important fishery ground assigned to each. These watchmen were stationed at various strategic points in southeast and central Alaska, and their work will undoubtedly result in a better observance of the fisheries laws and regulations.

SALMON HATCHERIES.

In the fiscal year 1918 six salmon hatcheries were operated, two by the Government and four privately, by companies engaged in canning salmon. Operations at one of the private hatcheries were limited to the extent necessary for releasing young salmon hatched from eggs taken in the fall of 1916. Companies engaged in canning salmon in Alaska are allowed a deduction from the taxes due on their

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canned product to the extent of 40 cents for each 1,000 red or king salmon fry released. In the fiscal year 1917 there were released from the privately owned hatcheries 83,350,000 red salmon fry, thus reliev-

ing their owners of taxes to the extent of \$33,340.

In the season 1916-17 the total number of young red, or sockeye, salmon liberated was 155,641,000, of which number 72,291,000 were released from Government hatcheries. In the calendar year 1917 there were taken in connection with Government hatcheries 90,698,000 and at privately owned hatcheries 25,266,000 red, or sockeye, salmon eggs. In the same period there were also taken 4,113,000 humpback-salmon eggs by the Government hatcheries and 2,400,000 at one of the other hatcheries.

NUMBER OF PERSONS EMPLOYED.

The number of persons employed in the fisheries in Alaska in 1917 was 29,491. Of these, 16,043 were classed as whites, 6,170 as natives, 1,643 as Japanese, 2,274 as Chinese, 1,547 as Mexicans, and 1,814 as miscellaneous, including Filipinos, negroes, Porto Ricans, etc. The total number in 1916 was 23,994, or 5,497 less than in 1917.

INVESTMENTS IN ALASKAN FISHERIES.

The total investment in the fisheries of Alaska in 1917 was \$54,937,549, of which \$46,865,271, or approximately 85 per cent, was invested in the salmon-canning industry. The investment of \$54,937,549 in 1917 compares with an investment of \$39,569,612 in 1916, an increase of \$15,367,937 in 1917. With respect to the 1917 investment approximately \$24,600,000 was in southeast Alaska, \$10,700,000 in central Alaska, and \$19,650,000 in western Alaska. Other information in regard to investments are given in connection with the details of the more important subdivisions of the industry.

QUANTITY AND VALUE OF PRODUCTS.

The total value of Alaska's fishery products in 1917, exclusive of aquatic furs, was \$51,466,980. The value of the 1917 products exceeded by \$25,310,421 that of 1916, which was \$26,156,559. The quantity and value of the various products of the Alaska fisheries in 1917 were as follows: 5,947,286 cases of canned salmon, valued at \$46,304,090; 2,850,400 pounds of mild-cured salmon, valued at \$344. 028; 36,390 barrels of pickled salmon, valued at \$590,497; 4,559,785 pounds of fresh salmon, valued at \$404,048; 1,282,182 pounds of frozen salmon, valued at \$81,574; 377,000 pounds of dry-salted, dried. and smoked salmon, valued at \$53,844; 7,038,283 pounds of fresh halibut, valued at \$605,205; 6,115,128 pounds of frozen halibut, valued at \$515,021; 13,777,470 pounds of cod, valued at \$744,976; 49,245 cases of canned herring, valued at \$326,522; 23,082 pounds of fresh and frozen herring (for food), valued at \$907; 6,089,780 pounds of fresh and frozen herring (for bait), valued at \$57,556; 4,593,025 pounds of pickled herring (for food), valued at \$248,299; 165,000 pounds of dry-salted herring (for food), valued at \$11,349; 21,600 pounds of smoked herring (for food), valued at \$700; 205,992 gallons of herring oil, valued at \$82,396; 1,037 tons of herring fertilizer, valued at \$40,000; 900,883 gallons of whale oil, valued at \$438,362; 197,670 gallons of sperm oil, valued at \$149,270; 1,980,600 pounds of whale fertilizer, valued at \$61,720; 14,866 pounds of whalebone, valued at \$5.500; 7,798 pounds of frozen trout, valued at \$701; 34,800 pounds of pickled trout, valued at \$1,899; 35,168 pounds of fresh trout, valued at \$3,317; 1,408 cases of canned trout, valued at \$10,979; 1,020,490 pounds of sable fish, valued at \$38,303; 150,453 pounds of red rockfish, valued at \$3,696; 114,167 pounds of miscellaneous fresh fish, valued at \$2,247; 74,515 cases of clams, valued at \$274,036; 65,000 pounds of shrimps, valued at \$3,400; 410 dozen of crabs, valued at \$665; 25,150 gallons of by-products, oil, valued at \$19,560; and 1,642,000 pounds of by-products, fertilizer and meal, valued at \$42,313.

THE SALMON INDUSTRY.

As in previous years the salmon industry remained the predominant factor in the fisheries of the Territory. The value of its output was several times that of all the other fishery products combined. All five species of salmon taken in Alaskan waters are used to the fullest possible extent. The total output in 1917 exceeded both in quantity and value that of any previous year.

The commercial methods of preserving salmon in Alaska for future use are by canning, mild curing, pickling, freezing, dry salting, dry, ing, and smoking. There is also a considerable trade in fresh salmon.

The principal methods of taking salmon are by beach and purse seines, gill nets, and pound nets, or traps. In 1917 the number of seines used was 599; gill nets, 5,113; and pound nets, or traps, 470.

In 1917 the total number of salmon taken in Alaska was 92,600,495. The take by species was as follows: Coho, or silver, 2,104,253; chum, or keta, 8,527,578; humpback, or pink, 44,875,241; king, or spring, 596,346; red, or sockeye, 36,497,047. The total take in 1916 was 72,055,971, or 20,544,524 less than in 1917. Comparing the take by species, more chums, humpbacks, and reds were taken in 1917 than in 1916, while the take of cohos and kings was greater in 1916.

Salmon canning.—The value of the output of canned salmon in 1917 represented about 97 per cent of the value of the total products of the salmon industry. The investment in the salmon-canning industry amounted to \$46,865,271, of which \$19,929,055 was in southeast Alaska, \$9,412,791 in central Alaska, and \$17,523,425 in west-The total investment in 1916 was \$34,100,853, or \$12,764,418 less than in 1917. In each of the three sections mentioned there was a larger investment in the salmon-canning industry in 1917 than in 1916. The number of persons engaged in 1917 was 23,350, an increase of 4,110 over 1916. The output of canned salmon in 1917 consisted of 5,947,286 cases, valued at \$46,304,090, as compared with 4,900,627 cases in 1916, valued at \$23, 269,429. The pack and value, according to species, in 1917 were as follows: Coho, or silver, 193,231 cases, valued at \$1,682,745; chum, or keta, 906,747 cases, valued at \$5,572,047; humpback, or pink, 2,296,976 cases, valued at \$14,794,062; king, or spring, 61,951 cases, valued at \$644,447; red, or sockeye, 2,488,381 cases, valued at \$23,610,789. In 1917 there were operated in the salmon industry 118 canneries, as compared with 100 in 1916.

Mild curing of salmon.—The production of mild-cured salmon in 1917 showed a decline of about 30 per cent in quantity from that of

1916. This decline was due to a decrease in the number of king salmon taken and to an increased use of this species in the canning industry. The war has continued to close to this product what were formerly its principal markets. With the exception of a pack of 106 tierces of king salmon prepared in central Alaska, the mild-curing industry in 1917 was confined to southeast Alaska. The number of fixed plants operated was 10, the total value of the investment in the industry was \$940,937. The number of persons employed was 3,137. The total product of mild-cured salmon amounted to 3,563 tierces, or 2,850,400 pounds, valued at \$344,028. Of this output 2,937 tierces, valued at \$301,560, were prepared from king salmon.

Pickling of salmon.—The pickling of salmon was carried on to a

Pickling of salmon.—The pickling of salmon was carried on to a greater extent in 1917 than in 1916. A total of 37 salteries were operated. The investment in the industry was \$865,442 and the number of persons employed was 509. The output consisted of 36,390 barrels, or 7,278,000 pounds, valued at \$590,497. In 1916 the output

consisted of 17,734 barrels, valued at \$212,667.

Other salmon industries in 1917.—The output of frozen salmon in 1917 was 1,282,182 pounds, valued at \$81,574. In 1917 there were shipped from Alaska 3,559,785 pounds of fresh salmon, valued at \$304,048. In addition it is estimated that 1,000,000 pounds of fresh salmon, having a value of \$100,000, were consumed locally in the Territory.

Accurate statistics are not available with respect to the amount of salmon dry-salted, dried, and smoked. A great deal of salmon is prepared in one or another of these ways by. Indians and others for strictly local use and for which no official reports are made. The aggregate amount actually reported was 377,000 pounds, valued at \$53.844.

There were manufactured from waste products of salmon 25,150 gallons of oil, valued at \$19,560, and 821 tons of fertilizer, valued at \$42,313.

HALIBUT.

Among the Alaska fisheries the halibut industry is second only to the salmon industry. In 1917 the investment in the halibut industry was \$2,200,987. In 1916 it was \$2,149,311, or \$51,676 less. The number of persons employed in 1917 was 909. The total production of halibut credited to the Territory was 13,153,411 pounds, valued at \$1,120,226, an increase of 1,657,854 pounds over that of 1916. Referring to the approximately 13,000,000 pounds credited to Alaska in 1917, it may be stated that the total catch of halibut on the Pacific coast was about 60,000,000 pounds, of which probably 30,000,000 were taken from the grounds contiguous to the coast of Alaska.

COD.

The quantity of cod taken in 1917 was less than in 1916, but the value of the catch was greater. The demand for Alaska cod in the West Indies was smaller than usual, with the result that new markets were developed in South America. A part of the cod products of Alaska was exported to the Hawaiian Islands and to Australia. A portion of the cod fishery is carried on by vessels operating from ports of the Pacific Coast States, while the balance is carried on

by means of shore stations in Alaska, where the fish are landed from vessels operating locally and prepared for market. The investment in 1917 in the cod fishery was \$1,408,265, which was \$844,053 greater than in 1916. The number of persons employed was 795, approximately the same as in 1916. The total production of prepared cod amounted to 13,777,470 pounds, valued at \$744,976. This production included 112,968 pounds of canned cod, valued at \$14,758.

HERRING.

In order to stimulate the production of herring in this country, not only to increase the aggregate amount of food but to meet the reduced supply due to the reduction in the amount of herring ordinarily received from abroad, and to place at the same time a better-prepared product upon the market, the Bureau of Fisheries initiated an educational campaign in the Territory in 1917. Stress was placed upon the Scotch-cure method. Directions were mailed to all persons known to be interested in Alaskan fisheries, and a corps of special assistants was placed in the field to give practical instruction to all who wished information. The bureau met with hearty cooperation on the part of those engaged in the fisheries, with the result that 1,877,450 pounds, or 7,622 barrels, were Scotch-cured in Alaska in 1917, as compared with 13,576 barrels packed by the Norwegian method. Special assistants as well as regular employees of the bureau continued this work in the season of 1918.

For food purposes Alaska herring are used fresh and are preserved by dry salting, freezing, pickling, canning, and smoking. For bait, herring are used fresh and after being frozen. Herring are also manufactured into oil and fertilizer. In 1917 the investment in the herring fishery was \$562,002, the number of persons engaged was

214, and the value of the products was \$767,729.

WHALES.

In 1917 the investment in the whaling fishery was \$1,609,926, or \$518,455 more than in 1916. There were 162 persons employed, or 71 fewer than in 1916. The value of the products was \$654,852, or \$291,131 greater than in 1916. The number of whales taken was 423, or 34 more than in 1916.

MINOR FISHERY PRODUCTS.

The clam-canning industry, represented by an investment of \$294,987, gave employment to 226 persons and produced products valued at \$274,036. The value of the trout products amounted to \$16,896. Shipments of sablefish from Alaskan waters amounted to 1,020,490 pounds, valued at \$38,303. The production of red rockfish amounted to 150,453 pounds, valued at \$3,696. Shrimps were pickled to the extent of 65,000 pounds, valued at \$3,400. Local use is made of crabs at various places, but the output reported was valued at only \$665. Their use should be increased. More attention should also be given to the development of the shark fishery. Shark hides may be made into a desirable grade of leather and the carcasses into oil and fertilizer. It is also stated that dried shark meat has a

value of from \$50 to \$60 per ton in sacks at Seattle. Among the species of fishes in the waters of Alaska which are utilized to a limited extent at present are the smelt, ling, eulachon, tomcod, flatfish, and atkafish.

FUR-SEAL SERVICE.

The act of Congress approved August 24, 1912, giving effect to the North Pacific Sealing Convention of July 7, 1911, provided that for a period of five years from its approval the killing of fur seals at the Pribilof Islands should be limited to the number required for the use of the native inhabitants. This five-year period expired August 24, 1917. However, the continuance of the so-called stagy season for a period of several weeks after August 24, when the seal-skins are not in good condition for commercial purposes, made it impracticable to resume commercial killings at once. Later in the year climatic conditions and the migration of the seals from the islands tend to restrict the killing of seals except upon a limited scale. Consequently, seals were not taken at any time in 1917 on the scale that the numerical strength of the herd would have permitted.

In the calendar year 1917 there were taken on St. Paul Island 4,986 sealskins and on St. George Island 3,184, a total for the Pribilof Islands of 8,170 skins.

Three sales of fur-seal skins from the Pribilofs were held at St. Louis in 1917. At the first sale, held in January, 2,000 were sold at an average price of \$46.84 per skin. The second sale was held in April, when 1,500 were sold, at an average price of \$45.69. In October 3,239 skins were sold, at an average price of \$33.17. The total number of skins sold in the year was, therefore, 6,739. All the skins were dressed, dyed, and machined before being sold.

Another census of the fur-seal herd was taken in 1917. The results showed a substantial increase in the size of the herd over the previous year, and were in keeping with the general upbuilding of the herd since the cessation of pelagic sealing several years ago as a result of the North Pacific Sealing Convention effective December 15, 1911.

The following table shows the results of the censuses taken in the years from 1912 to 1917, inclusive:

General comparison of recent censuses of the seal herd.

Class of seals.	1912	1913	1914	1915	1916	1917
Harem bulls. Breeding cows.	81,984	1, 403 92, 269	1,559 93,250	2, 151 103, 527	3, 500 116, 977	4,850 128,024
Surplus bulls Young bulls (chiefly 5-year-olds)	113 199	. 105 . 259	172 1,658	673	2,632	8,977 2,706
Six-year-old males. Five-year-old males Four-year-old males.	100	2,000	9,939	11,271 15,848	11, 167 15, 494 15, 427	15,397 14,813 16,631
Three-year-old males Two-year-old males Yearling males Two-year-old cows	11,000 13,000	10,000 15,000 20,000	13,880 17,422 23,068	18, 282 23, 990 30, 307 23, 990	19, 402 24, 169 33, 645	19, 507 26, 815 38, 013 26, 917
Yearing cows. Pups.	13,000	15,000 20,000 92,269	17, 422 23, 067 93, 250	30,306 103,527	24, 245 83, 646 116, 977	38, 018 128, 024
Total	215 , 73 8	268, 305	294, 687	363, 872	417, 281	468, 692

Each year the increase in the size of the herd brings about conditions which increase greatly the difficulties of obtaining the census. Owing to increased knowledge in regard to the herd which results in some rearrangement with respect to the various classes of animals composing the herd, to increased information in regard to death rates, changes which are brought about in the herd itself by reason of the relative increase in the number of males, and in lesser degree to other causes, the figures given for each class of animals are not entirely comparable from year to year. In all cases it is believed that the figures given are on the side of safety; that is, the herd is actually stronger, if anything, than the figures indicate.

In connection with the administration of the Pribilof Islands, the Department of Commerce attends to the management of the blue-fox herds on St. Paul and St. George Islands. As stated in the preceding annual report there were taken in the season of 1916–17 on St. Paul Island 150 blue-fox pelts and 37 white-fox pelts, and on St. George Island 417 blues and 2 whites, a total of 567 blues and 39 whites. These skins were sold in St. Louis in October, 1917. The 567 blue pelts sold for \$34,653.50 gross, an average of \$61.11 per skin, and the 39 white pelts for \$1,027 gross, an average of \$26.33

per skin.

In the season of 1917-18 there were taken on St. Paul Island 90 blue pelts and 14 white pelts, and on St. George Island 602 blue pelts and 5 white pelts, or a total for the Pribilofs of 692 blues and 19 whites. On the Pribilofs the white fox is a color phase of the normal blue fox, and its pelt is less valuable. All the foxes on the islands are of the same species, and efforts are made by the Government to reduce to a minimum the strain of white individuals.

In 1917 the shipment of bones of fur seals and sea lions which

have accumulated on the Pribilof Islands was begun.

In anticipation of the taking of sealskins on a considerable scale in the calendar year 1918 the Department of Commerce has arranged for the construction and operation of a by-products plant on St. Paul Island, which will utilize the carcasses of seals resulting from the killings and which would otherwise be wasted. It is expected that fertilizer and oil will be the principal products.

MINOR FUR-BEARING ANIMALS.

Fur farming continues to receive attention in various parts of Alaska. Some operators are probably securing profitable returns from the business, while others are clinging to the work with a persistence which indicates a faith in the final outcome of their work.

The only change in the regulations of the Department of Commerce for the protection of the fur-bearing animals has been an extension ordered early in 1918 of the present complete prohibition on the taking of beavers for a further period of five years, or until November 1, 1923. This extension was made apparently with the general approval of the people of the Territory.

In the calendar year 1917 the time of a number of wardens was devoted largely to enforcing the laws and regulations for the protection of the fur-bearing animals. Other employees of the Bureau of Fisheries have given attention to this matter when practicable.

The collecting and compiling of statistics of shipments of furs from Alaska have been continued by the Bureau of Fisheries. All shippers are required by departmental regulation to report their shipments. The Post Office Department cooperates with the Department of Commerce in that it requires that postmasters see that a report is actually made with respect to each mail shipment. Through the courtesy of the collector of customs at Juneau the reports received of shipments made otherwise than by mail are checked with the records of his office. In 1917 the value of the furs shipped from Alaska, including those from the Pribilof Islands, was \$1,338,600, as compared with \$1,143,600 in 1916, and \$519,950 in 1915. The following table shows details with respect to quantity and value of furs shipped from Alaska in the period from November 16, 1916, to November 15, 1917. The figures for fur-seal skins from the Pribilofs are for the calendar year 1917.

Furs shipped from Alaska in year ended Nov. 15, 1917.

Species.	Number of pelts.	Average value.	Total value.
Bear:			
Black	1,061	\$14.00	\$14,854.00
Brown	62	12.00	744.00
Glacier	8	20.00	160.00
Grizzly	13	17.00	221.00
Polar		40.00	5,760.00
Beaver	2 118	10.00	1, 180.00
Crmine	4,639	.90	4, 175, 10
Pox:	`		•
Black	10	160.00	1,600.00
Blue	887	58.00	51, 446. 00
Blue, Pribilof Islands	567	61.11	34,653.50
Cross		35.00	93, 415.00
Red	10,485	24.00	251, 640.00
Silver gray	443	120.00	53, 160. 0 0
White	3,682	28.00	103, 096. 00
White, Pribilof Islands	39	26.33	1,027.00
Iare, Arctic	89	. 40	35.60
ynx	21,210	14.00	296, 940.00
Carten	1,210	14.00	16, 940.00
Çink	18,832	4.00	75, 328.00
fuskrat	72,264	. 45	32, 518. 80
Otter:	ا ــــا		
Land	1,308	15.00	19, 620.00
Sea	42	344.85	689.70
eal, fur, Pribilof Islands	9,140	30.00	274, 200.00
eal, fur	• 5	30.00	150.00
guírrel	117	. 05	5.85
Volf	195	8.00	1,560.00
Volverine	435	8.00	3, 480.00
Total			1 220 500 55
T. O. (401		•••••	1, 338, 599. 55

¹ The killing of polar bears in Alaska is unlawful. Seventeen skins were reported as being taken in extraterritorial waters.

THE LEASING OF ISLANDS FOR FUR FARMING.

The Department of Commerce has authority to lease certain Alaskan islands for fur-farming purposes. On June 30, 1918, the following islands were held under such leases: Middleton, in Gulf of Alaska; Simeonof, one of the Shumagin group; Little Koniuji, Shumagin group; and Pearl, one of the Chugach Islands.

Includes 57 seized skins, and 46 reported as Canadian pelts. It is unlawful to kill beavers in Alaska.
 Cheoked against affidavits that skins were taken before Mar. 15, 1916. It is now unlawful to kill martens in Alaska.
 Unlawfully killed by natives.

Calendar year 1917.
 It is unlawful to kill fur seals within the Territorial waters of Alaska, except on the Pribilof Islands.

VISIT TO ALASKA OF THE SECRETARY OF COMMERCE.

Early in May of this year the Secretary of Commerce, as chairman of a joint American and Canadian commission, visited Ketchikan, at which time a number of matters appertaining to local conditions were brought to his attention. Accompanying the Secretary were the Assistant Secretary of Commerce and the Director of the Bureau of Fisheries. The result of this visit was most gratifying, as is shown by a letter from the Secretary of Commerce, which I quote in full:

I was very glad indeed to have your letter of the 4th instant, and am led by it to write you concerning such of the plans of this department for work in Alaska as can at this time be formulated.

It will doubtless be well to begin by saying that, in view of your interest in the work of demonstrating to the people of Alaska the best methods of curing and packing and otherwise preparing for market the invaluable fish food resources of that Territory, we have determined to double the number of expert demonstrators from the Bureau of Fisheries, sending four instead of two.

Deeds speak louder than words, and the earnest wish of the Department of Commerce to assist Alaska rests upon definite performance in the present and

the past, rather than upon promises for the future.

Three of the maritime services of this department affect Alaska—the Lighthouse Service, the Coast and Geodetic Survey, and the Bureau of Fisheries. The equipment of these services has long been inadequate for the important and growing work that Alaska requires. Therefore, in each of the three new vessels have been specially designed for the Alaskan service and constructed or else have been purchased, so that in each of these three lines of effort the best ships the department has throughout the entire United States are those either stationed in or specially intended for the work in Alaska. In the Fisheries Service the lighthouse steamer Cedar is the largest we have. The new surveying steamer Surveyor, specially designed for work upon Alaskan coast, will be sent there as soon as the exigencies of war relax so that she can be spared from the Navy. In like manner the steamer Roosevelt, of the fisheries service, specially constructed for ice conditions, is not only peculiarly fitted for Alaskan work, but has proved that fitness within recent weeks by the rescue of the icebound ships and crews in Bristol Bay, in which single operation she more than paid her entire cost and maintenance up to date.

While on this particular theme it should be added that appropriations have just been made providing a power lighter for use between Alaskan points and the seal islands in the fisheries service; for a small new steamer to take the place of the Taku for surveying in Alaskan waters and for wire-drag launches for the Coast and Geodetic Survey, the first step toward an adequate provision of those important little vessels to do in the best and most rapid way that kind of surveying of which the coast of Alaska stands in peculiar need.

At the same time provision is made for extending the seacoast lights in Alaska, and I hope before this letter reaches you to learn that Congress has provided a fund of \$90,000 for constructing at Ketchikan a modern lighthouse depot, adequate for the home station of that service for the entire Alaskan coast. I took pleasure in personally appearing before the Senate committee

and asking that this matter be expedited.

I have recently caused inquiries to be made in Ketchikan as to whether the wooden steam lighter for the fisheries service could be built at some Alaskan point, and regret to find that there seems no yard adequate for the purpose. Let me suggest that a good boat-building yard would seem to have an excellent opportunity at some Alaskan port. There is, I take it, abundant material, and the amount of labor would not be large. If such a yard existed now we could give it an opportunity to bid upon four small wooden vessels, and this is, I think, likely to recur from time to time. We shall ask Congress for four more launches, in addition to the four now granted, and of these two more could be built in Alaska.

Furthermore, there are so many fishing vessels of moderate size along the Alaskan shore that there must be a steady demand for boat repairs, and it would seem that a moderate-sized yarl could keep busy pretty steadily. On the other hand, it would greatly facilitate the fisheries work in Alaska if the fishermen were able to get boat repairs, and possibly minor repairs on vessels,

made promptly. A small ship railway would be a valuable addition. We would willingle encourage such a yard by giving it such business as we had.

As you know, the Steamboat Inspection Service district in which Alaska is included covers also the entire Pacific coast of the continental United States and Hawaii as well, with headquarters at San Francisco. This is an impossible situation which we have long striven to change. Legislation is now pending at our request which will put California and Hawaii into one district and establish a new one, with headquarters at Portland or Seattle, to include Alaska. The result will be a much closer supervision over matters within the review of this service through the ability to give more detailed care to the work of the local boards at St. Michael and Juneau.

Passing to matters of future policy, we intend to actively continue thework of improving the physical condition of streams so that spawning salmon may find their way upward and young salmon may pass downward. By dynamiting obstructions a considerable number of streams now altogether or partly devoid of salmon runs may be made suitable for particular species and the production of salmon in certain regions can be thereby materially increased.

The Bureau of Fisheries is now in position to carry out for the first time the special patrol of salmon streams, a matter which has been advocated from time to time by people in Alaska. This year about 20 of the principal streams will be under the constant supervision of watchmen to see that the fishery laws are enforced and to report on fishery conditions. Each of these patrols will have a motor boat and the service will, if it proves satisfactory this season, be extended and made permanent.

The plans of the Bureau of Fisheries for salmon culture in Alaska Include:

(a) Additional hatcheries in the regions of the most exhausting fisheries.
(b) Acquisition of the present private hatcheries and the operation as Government plants of those that are able to render good service.

(c) Perfection of methods and extension of rearing facilities so that the

salmon hatched may be reared to a suitable age before release.

The fisheries service is undertaking this year a special investigation of the salmon resources of the Yukon and Copper Rivers, with particular reference to the conservation of the supply. There is also in progress a scientific investigation of salmon looking to the solution of some important practical questions that have arisen in the administration of the salmon laws. This work is in charge of Dr. Charles H. Gilbert, who is the leading authority on the Pacific salmons.

It is the earnest hope of the department to establish on the northwest coast of the United States a fisheries experiment station to serve the same function to the fishing industry that an agricultural experiment station serves to agriculture. Such a station, if located on Puget Sound, would be expected to meet in large measure the immediate needs of Alaska. If, however, it were found after experience that Alaska's interests in this respect could be more adequately served by a station within her own territory, the Bureau of Fisheries would be ready to submit an estimate for such an additional station to Congress.

It is the earnest desire and intention of the fisheries service to extend what is known as the fisheries intelligence service so as to make it more useful to all the fishermen of Alaska. At present this intelligence service comprises market quotations on certain fishes at Seattle, which quotations are daily wired to Ketchikan, from which point there is a daily telegraphic market report to Juneau, Wrangell, Petersburg, Skagway, Cordova, Valdez, Seward, and Sitka. This service was instituted in response to a memorial of the Alaska Legislature

and is maintained without expense to the Territory.

The rich aquatic resources of Alaska have not heretofore received the attention they deserve. One or two fisheries of great importance have overshadowed others. Yet these more or less neglected fishes are valuable food products and are the very ones which have made other countries prosperous. Particular stress is now being laid, as you know, by the Bureau of Fishefies on the salting of herring after the Scotch method and the curing of atkafish and others. There can be no doubt that with proper publicity and instruction the Alaska herring industry can be made to rival that of Norway and Scotland and this department is definitely committed to the task of bringing this to pass. We have undertaken a campaign to introduce into wider popular use the valuable food fishes of Alaska hitherto largely neglected. We regard it as certain that there will come in time to be an economic importance to these almost unused fish foods which will greatly contribute to the wealth of Alaska.

Coincident with the resumption of commercial sealing on the Pribilof Islands, the department for the first time in the history of those islands is making use of the by-products of the sealing industry. A reduction plant has been sent to the islands, and there will henceforth be a large and valuable output of oil and fertilizer. These are both in great demand and will never again be utterly wasted as in the past. A number of Alaskans have been taken to the seal islands for temporary employment during the height of the present season.

In my recent visit to the Pacific northwest it was more than once suggested as a hope that the coast of Alaska might be dotted with fishing villages, each pursuing a prosperous local industry and each contributing to the Nation's food supply and wealth. It is our earnest hope that this may come to pass, and the Department of Commerce will willingly lend its efforts to bring this about.

The department realizes, however, that no country can safely depend permanently upon any one single overshadowing industry or occupation. In diversity lies security. Every interest in Alaska should have the fostering care of the country so that its development may be rounded and not partial. Before the shores of Alaska, however, can be covered as they ought to be with the vessels bringing to and from her ports the commerce that is their due, the waters of Alaska must be made safe, and this means that the surveys of many straits and arm must be worked out so that the navigator shall know how to avoid the perils that now threaten him. To this important task the services of the Coast and Geodetic Survey shall be continuously devoted. It is a pleasure, therefore, to know that pending legislation carries an appropriation for another fine surveying steamer similar to but possibly an improvement upon the Surveyor, which vessels we hope may contribute to safeguarding the Alaskan shores.

TERRITORIAL FISH COMMISSION.

A Territorial fish commission was provided for under chapter 75 of the session laws 1917, entitled "An act providing for fish hatcheries and for the protection and care of natural spawning grounds in the Territory of Alaska, and for the creation of a board of fish commissioners." Eighty thousand dollars was appropriated to carry out the terms of the act.

Irregularities in the passage of the law were brought to my notice by the treasurer and the attorney general of the Territory. Grave doubts were expressed by both if the funds appropriated could be legally expended. Reluctantly I was forced to relinquish my desire to carry in effect the intent of the law which would undoubtedly have been of great benefit to the Territory. The activities contemplated would have been of unquestioned value in supplementing the valuable work of the Bureau of Fisheries, for which entirely inadequate provision has been made.

EXPERIMENTAL HATCHERY.

With assistance from Territorial funds the Alaska Fish and Game Club has maintained a small experimental fish hatchery at Juneau with most interesting and valuable results. The original intention of the club was to stock barren waters with fish to provide sport for resident anglers; later, however, the idea expanded to include experimentation along original lines. The work of the club has been briefly as follows:

In January, 1917, the two allotments of trout eggs in the "eyed" state, amounting to more than 150,000, were received from the Bureau of Fisheries and placed in the hatchery. In due time they

were hatched with less than 10 per cent loss.

On account of a very late spring, the planting of the fry could not be accomplished as early as desired and the expense of feeding was incurred. They grew well and between the period from hatching

to planting there was practically no loss.

On June 1, 1917, 40,000 fry were planted in Lower Annex Lake; June 11, 50,000 were placed above Salmon Creek dam; June 25, 50,000 were put in Upper Annex Lake, all in the vicinity of Juneau, and on July 4, 15,000 were planted in Lake Dewey and contiguous

lakes and ponds at Skagway.

Thirty days after planting, the fish had increased more than three times their size; by the end of August they were over 4 inches long; at the close of the season specimens were seen measuring 6 inches, and as soon as the lakes opened in June, 1918, some were taken with a fly measuring 6 to 8 inches. Live specimens are now at the hatchery and are in fine condition. The eggs from which these fish were hatched came from a Colorado hatchery of the Bureau of Fisheries and are of the variety known as the Eastern Brook, a species of char.

So well did the experiment prove that in July, 1917, the club asked the Bureau of Fisheries for an allotment of 100,000 "eyed" eggs of the Rocky Mountain black spotted trout. This request was put through the Delegate and in due time the eggs were shipped from the Yellowstone Park hatcheries, but owing to poor packing and improper attention en route the shipment was lost.

Application was then made for 200,000 Eastern Brook eggs, which were received January 21, 1918, in good condition, in due time successfully hatched, and are now in course of distribution. Thus far

the following plants have been made:

Lakes near Nickle, Chichagof Island	15,000
Wagner Dam and Salmon Creek, Juneau	
Upper Sheep Creek, Juneau	20,000
Upper Lemon Creek, Juneau	20,000
Lund Lake, Juneau	15,000
Boston Pond, Juneau	2,000
Granit Creek, Juneau	15, 000
Lakes near Cordova.	10,000

There are also about 40,000 native Cut-Throat Trout fry, hatched

during the winter at the hatchery awaiting distribution.

Besides the trout work mentioned, the club took up the matter of placing shad in the Taku River, but failed to secure any roe from the bureau

By far the most important work done by the club is its experimenting with salmon propagation which has been carried on at the hatchery and in appropriate streams. Particular attention is called to the following experiments which have been conducted during the last two years, from which satisfactory results have been obtained:

1. Stripping the parent fish at the spawning beds and, after fertilization artificially, planting the eggs in the sand or gravel to conform with natural hatching.

2. Holding fertilized eggs in the hatchery to within 24 to 72 hours of the hatching stage and then planting same in inlet streams of barren lake or body of water free from all other fish life or natural enemies.

3. The cleaning out of all natural salmon-producing streams of debris and

obstruction and erecting ladders over barriers.

An interesting experiment is in progress in a small way, which has shown remarkable results. On September 21, 1917, eggs in the roe and upripe milt were taken from under the "iron chink" at the

Chilkoot cannery after the parent fish had been dead from 12 to 24 hours and handled in the usual manner. The eggs were subjected to the fertilization by the milt artificially and placed in the troughs. After a lapse of 120 days a result of 5 per cent of normal fish was obtained.

MINERAL PRODUCTION OF ALASKA.

In 1917 Alaska produced minerals valued at \$40,700,195. The value of the mineral output of Alaska in 1917, although about \$7,931,943 less than that in 1916, was greater than that in any other year. The most valuable mineral product in 1917 was copper, of which 88,793,400 pounds, valued at \$24,240,596, was produced. This is less than the output of 1916, which was 119,602,028 pounds, valued at \$29,480,291, but is greater than that of any other year. The reduction is due largely to labor troubles and is not necessarily permanent. The gold produced in 1917, \$14,657,353, of which \$9,810,000 was derived from placer mines, was also less than that produced in 1916, which was \$17,241,713, and is the smallest since 1904. The reduction was due chiefly to curtailment of operations because of the scarcity of labor and the high cost of materials, but in part to the disaster at the Treadwell mine and the depletion of some of the richer placers.

During the year Alaska also produced silver valued at \$1,021,055, coal valued at \$265,317, lead valued at \$146,584, tin valued at \$123,300, antimony valued at \$28,000, and tungsten, chromium, petroleum,

marble, gypsum, graphite, and platinum valued at \$217,990.

Since 1880 Alaska has produced \$390,286,124 in gold, silver, copper, and other minerals. Of this amount \$292,758,000 represents the value of the gold, and that \$88,644,468 that of the copper.

MINING IN ALASKA.

[Advance statement by United States Geological Survey.]

GOLD PLACER MINING.

The data in hand indicate that the value of the placer gold output in 1917 was \$9,810,000, in 1916 it was \$11,140,000. The decrease was due chiefly to restriction of operations because of the high cost of supplies and the scarcity of labor. The placer output was increased only in the Tolovana, Marshall, and Ruby districts, and at the new camp at Tolston.

GOLD LODE MINING.

Thirty-one gold-lode mines were operated in 1917, compared with 29 in 1916. The value of this lode gold mined decreased from \$5,912,736 in 1916 to about \$4,581,453 in 1917. The decrease was due chiefly to the disaster at the Treadwell mine. Southeastern Alaska, especially the Juneau district, is still the only center of large quartzmining development in the territory. Next in importance is the Willow Creek lode district. Gold-lode mining on Prince William Sound, Kenai Peninsula, and in the Fairbanks district is at a standstill.

COPPER MINING.

The copper production of Alaska in 1917 was about 88,793,400 pounds, valued at about \$24,240,596. This is less than the production in 1916, which was 119,854,839 pounds, valued at \$29,484,291, but is greater than the production of any other year. The reduction in output was due largely to labor troubles at the Kennecott-Bonanza mine. During the year 17 copper mines were operated, compared with 18 in 1916—7 in the Ketchikan district, 7 in the Prince William Sound district, and 3 in the Chitina district. The enormous output of the Kennecott-Bonanza mine, in the Chitina district in 1917 as in previous years, overshadowed that from all others.

TIN MINING.

About 100 tons of stream tin was produced in Alaska in 1917, valued at \$123,300. Most of this came from the York district, where two tin dredges were operated. Developments were also continued on the Lost River lode-tin mine. The rest of the concentrates were recovered incidentally to placer-gold mining, chiefly in the Hot Springs district.

ANTIMONY MINING.

The mining of antimony ore (stibnite) began in Alaska in 1915 and continued on about the same scale throughout the first half of 1916, when a fall in the price of antimony put an end to most of these operations. Mining continued at two localities in the Fairbanks district in 1917.

TUNGSTEN MINING.

The Fairbanks district and Seward Peninsula were the principal producers of tungsten in Alaska in 1917. In the Fairbanks district two tungsten mines are in course of development. At one of these mines one unit of a 75-ton mill is in operation and late in the summer was turning out several hundred pounds of scheelite concentrates daily. At the other mine a similar mill was in course of construction. Underground work was in progress at both mines. The present indications give promise of a large increase in the production of tungsten in the Fairbanks district. In Seward Peninsula tungsten was produced principally by sluicing the residual scheelite-bearing lode material in Sophie Gulch. Smaller quantities were recovered as the result of placer mining at other localities.

MINERAL FUELS.

The production of petroleum from the only oil claim patented in Alaska, in the Katalla district, was increased somewhat in 1917. Drilling continued on a small scale, but no new productive wells were obtained.

Fifty-three thousand nine hundred and fifty-five tons of coal, valued at \$265,317, were mined in Alaska during 1917. The largest production was derived from the Eska Creek mines in the Matanuska field, which were taken over by the Alaskan Engineering Commission. Coal was mined also at the Doherty mine in the Matanuska field, at

the Bluff Point mine on Cook Inlet, on Cache Creek, and near Candle. The most important event of the year in connection with coal mining was the completion of the Matanuska branch of the Government railroad. The high-grade coal on Chickaloon River is now being opened by the Alaskan Engineering Commission, and small shipments to anchorage have been reported. Work preparatory to mining is being

undertaken by private lessees on Moose Creek.

The coal lands in the Nenana coal field have been subdivided and will be offered for leasing at an early date. The Government railroad is now being built southward to this field from Nenana, on the Tanana River, and will probably reach the field and make the coal available for river shipment in the summer of 1918. A private railroad from Controller Bay to a patented coal claim in the easter end of the Bering River field is now under construction and reported to

be nearing completion.

REVIEW BY DISTRICTS.

SOUTHEASTERN ALASKA.

About 10 gold-lode mines, 8 copper mines, 3 placer mines, 1 gypsum mine, and 1 marble quarry were operated in southeastern Alaska during 1917. The value of the gold produced in this field was about \$4,325,251. Copper production from this region (all of it from the Ketchikan district) was 2,646,553 pounds, valued at \$721,686. Silver value \$123,825; lead, marble, gypsum, etc., \$236,317; total mineral production southeastern Alaska \$5,407,079 for 1917.

In the Ketchikan district no gold mines were operated. The principal copper producers were the Rush and Brown, It, Jumbo, and Mount Andrew mines. The Mamie mine was closed down in the spring and an increased output was made at the It. The Rich Hill copper property, on Kasaan Peninsula, is being developed by the Granby Co. A 60-ton flotation mill was constructed on the Salt Chuck mine (formerly the Goodro mine), where milling was begun late in the summer. A molybdenite-bearing lode in the vicinity of Shakan, on the west coast of Prince of Wales Island, is being developed. Marble quarrying at Tokeen was continued about as usual.

Development of the copper lodes of the Ketchikan district, particularly on Kasaan Peninsula, has led to the uncovering of large bodies of magnetic iron ore at a number of places. The magnetite, which contains usually about 0.5 per cent of copper, has hitherto been regarded only as a low-grade copper ore. Attention has recently been redirected to these ores as a source of iron. Magnetic separation should yield a high-grade iron ore and a valuable byproduct of chalcopyrite to pay for the cost of separation. Plans for utilizating these iron ores are now being considered.

Gold-lode mining on a large scale continued at the Alaska-Juneau and Alaska-Gastineau (Perseverance) mines, near Juneau, in 1917. The new mill at the Alaska-Juneau mine was completed and put in operation in April, and was being run at about half its full capacity of 8,000 tons daily in October. The Alaska-Gastineau mine

and mill were turning out 7,500 tons daily in October.

As a result of a cave-in at the Treadwell, 700 Foot, and Mexican mines, which occurred in April, these properties are now flooded with sea water and abandoned. The surface equipment of these

three mines is being dismantled and sold.

The Ready Bullion mine, though connected at the 1,350-foot level with the Mexican mine, was saved by a concrete bulkhead, which, after the cave-in, was made permanent and greatly strengthened. At the end of June the drawing of all broken and caved ore above the 2,000-foot level was discontinued in order to render the mine entirely safe, and all open stopes are now being filled with waste. Development of the mine continued in the lower levels. The 2,400-foot level is now completed, and rapid progress is being made in the 2,600-foot level. The present plans contemplate the ultimate extension of the new No. 2 shaft to the 4,200-foot level. The production of gold at the Ready Bullion mine was decreased to one-third the normal quantity when work above the 2,000-foot level was discontinued, but will gradually be increased as the lower levels are opened up.

Development work was continued at the Alaska-Ebner mine. The Jualin mine, at Berners Bay, was operated at the rate of 35 tons a day during most of the year. Other properties in the Juneau gold belt were also developed or operated in a small way, and a

prospecting for new lodes was continued.

Development work continued at the molybdenite prospect, 9 miles

north of Skagway.

On Chichagof Island both the Chichagof gold mine and the gypsum mine of the Pacific Coast Gypsum Co. were operated on about the same scale as last year. The main tunnel of the Chichagof mine is now over 4,400 feet long. At the gypsum mine work was started on the new 300-foot level. This mine has been a steady producer since 1906.

Development work was continued on the group of copper claims near the head of Pinta Bay, about 15 miles northwest of Chichagof. A little prospecting, but no underground development work, was done on the copper-nickel deposit at Nickel, about 22 miles northwest of Chichagof.

COPPER RIVER BASIN.

The largest mineral producers of the Copper River region, in 1917, as in the several preceding years, were the Jumbo and Kennecott-Bonanza copper mines. Considerable copper was also shipped from the Mother Lode mine, and small shipments were made from several other properties. The important local developments in copper mining during the year include the successful operation of an ammonia leaching plant installed at the Kennecott-Bonanza in 1916 and the construction of automobile roads for hauling ore from the Mother Lode mine and from Nugget Creek. Much development work was done at these and other mines, some of which will probably soon be shipping. Labor troubles reduced the output of the Jumbo and Kennecott-Bonanza mines during the summer. Hydraulic placer mining continued on a large scale in the Nizina and Chistochina districts. Some plantinum was produced in the Chistochina district.

PRINCE WILLIAM SOUND.

The value of the total mineral production of Prince William Sound was \$4,567,929 in 1917, as compared with about \$3,000,000 in 1916. This represents the value of the production of 7 copper mines and 3 gold mines which can be classed as regular producers, and 8

other small mines or prospects.

The producing copper mines in 1917 included the Beatson, Blackbird, Schlosser property, Midas, Mackintosh property, and Ellamar. The Blackbird group, on Latouche Island, began shipping after lying dormant for several years. Three hundred and fifty men were employed at the Beatson-Bonanza, where large operations were continued and the capacity of the milling plant was increased to 1,600 tons a day. Twenty-five men were employed on the Blackbird and a new ore body was opened up. Twenty-seven men were employed on the Schlosser property and considerable underground work was done. The Mackintosh property employed 13 men stoping an old lead and extending the adit tunnels on it and cross-cutting to a new The Ellamar mine, with 100 men, continued operations throughout the year on about the usual scale. Fifty men were employed at the Midas during the year, underground operations were continued, a tram was operated, and large shipments were made. Six hundred feet of tunnel and crosscuts were driven on the Rua property. A large low-grade copper property was discovered on Long Bay. Some diamond drilling on a nickeliferous deposit on Knight Island is reported.

Four small gold mines were operated in the Port Valdez and Port Wells districts, but there was a gradual decline in gold mining and milling throughout the year, and the total production of the gold

mines was small.

KENAI PENINSULA AND COOK INLET.

The lode and placer gold mines of Kenai Peninsula yielded a smaller output than in the previous year. There was very little activity in the lode mines. The largest placer operations were on Resurrection and Crow Creeks. Preliminary steps were taken toward placer mining on a large scale on Canyon Creek. Large shipments of chromic iron ore were made from Port Chatham. Mineral production for 1917 was about \$30,000 of placer gold and \$4,600 of lode gold.

MATANUSKA COAL FIELD.

The most important event of the year in the Matanuska Valley was the extension of the railroad to Chickaloon, completing the Matanuska branch. The Eska Creek coal mines, opened in 1916 by private lessess, have been taken over by the Alaskan Engineering Commission, which is also opening a mine at Chickaloon. The Doherty coal mine, on Moose Creek, was operated throughout the year, and work preparatory to mining was undertaken at other localities.

SUSITNA REGION.

In the Willow Creek district 5 lode mines were operated in 1917 and produced \$195,662 in gold and \$586 in silver. A promising new

quartz vein was opened at the head of Fishhook Creek and has

already been traced for several claim lengths.

In 1916 and 1917 some 20 groups of claims were staked on gold and copper-bearing lodes in the basin of Iron Creek, a tributary of Talkeetna River from the southeast, but practically no underground work has yet been done. The discovery of a large dike carrying gold is reported from upper Talkeetna River. Some massive bornite that carried visible free gold and that was reported to have been found in the basin of Kashwitna River was brought in by a party of prospectors.

The prescribed amount of annual assessment work was performed on about a dozen groups of lode claims in the upper basin of Chulitna River, often referred to as the Broad Pass district. No mines in this district are yet productive, but more vigorous exploitation of the gold, copper, and antimony deposits awaits the better transportation

that will be furnished by the Government railroad.

The Cache Creek district continued to be the principal source of placer gold in the Yentna basin. The inaccessibility of placers on Cache Creek has made mining there very expensive, but a new wagon road from Talkeetna, on the Government railroad, to Cache Creek, which is now under construction, will soon afford a quick and easy approach to the district. A dredge, burning local coal, was operated on Cache Creek, and 15 hydraulic plants were working on Cache and Peters Creeks during the summer. Over 100 men were employed, producing placer gold valued at between \$125,000 and \$150,000. Operations at the end of the season were hampered by protracted rains and serious floods, which caused considerable damage to several mining plants. Late in the fall a Hudson Dry dredge was installed on ground along the north side of Kichatna River, at the mouth of Nakochna River, to begin mining in the spring of 1918. Some prospecting and mining were done in the Camp and Lake Creek Basins. Along the lower Kahiltna River prospecting for platinum was carried on by one company at two localities—one about 3 miles below the mouth of Peters Creek and the other a short distance upstream from the mouth of the river. A hand drill and two power drills were used in prospecting the river bars, about 12 men having been employed in this work. The prospecting is to be continued next season.

Platinum occurs at many other places in the Susitna Basin, including Cache, Peters, Camp, and Lake Creeks, as well as on the Kichatna and Chulitna Rivers, and commercial platinum placers may

ultimately be found.

SOUTHWESTERN ALASKA.

There was no mineral production in Southwestern Alaska except a small amount of placer gold taken from the Kodiak beaches and from a creek near Katmai.

YUKON BASIN.

The Alaska camps of the Yukon Basin are believed to have produced \$6,583,000 worth of gold in 1917, about \$1,000,000 less than in 1916. An estimate of the output of the principal camps is as follows:

Estimated value of gold produced from principal placer districts in Yukon Basin in 1917.

Iditarod	\$1,500,000
Fairbanks	1, 310, 000
Tolovana	1, 150, 000
Ruby	885, 000
Hot Springs	
Marshall	
Koyukuk	
Circle	200, 000
All others	413, 000

In addition to placer gold the Fairbanks district produced lode gold, silver, lead, antimony, and tungsten. The most noteworthy feature of the placer mining of the year was the increased output of the Tolovana placers. There was also an increased production in the Marshall and Tolstoi and probably in the Ruby district. The other districts show a decreased output, due chiefly to a general retrenchment by operators because of the high cost of supplies and the scarcity of labor. It is reported that a large dredge will be installed on upper

Fairbanks Creek to begin operations in 1918.

Gold lode mining in the Fairbanks district has been on the decline since 1913 and is now practically at a standstill. The cost of supplies and fuel has become so high that many operators will wait for more favorable conditions rather than work at a low profit and run the risk of actual loss. Eight gold lode mines were worked in a small way and five of these operated their own mills. One silver-lead deposit is being worked and made an output. One antimony mine was in operation and some ore was hand picked from old tailings and shipped. Two tungsten mines are in process of development. One is in operation and during the fall produced 500 pounds of scheelite concentrates a day. On the other the mill is in course of construction and surface and underground development work is in progress.

The gold production of the Hot Springs district is estimated to be \$450,000. The tin production is estimated at 25 tons. The decrease in the production of both gold and tin is due in part to the cessation of large operations on Woodchopper Creek and in part to the high cost of food and of mining supplies, which have prevented the working of any except high-grade ground. Although the tin output was small, there appears to be a considerable amount of stream tin in the old tailings and in the unworked ground. Prospecting in 1917 showed that both gold and stream tin occur in the basin of Sullivan Creek, considerably below the area which has not yet been mined, and that large bodies of low-grade gravels occur

on Bowlder Creek.

Operations in the Ruby district were conducted on about the same scale as in 1916. Prospecting on Midnight Creek has shown the presence of tin at several places. The dredge on Greenstone Creek had a successful season, but the dredging ground has been worked out and the dredge will be moved. Good ground was discovered by winter prospecting on Ketchum Creek, but the ground is too deep for easy exploitation. Twenty-one outfits and about 180 men were at work during the summer. Several winter dumps were taken out.

In the winter of 1916-17 a stampede to Tolstoi occurred, there being at times as many as 400 men at that camp, and there was much prospecting during the winter and spring. Not over 50 men were there in July. About \$50,000 was taken out during the winter and summer in the Tolstoi district, the result of the operations of about 25 men on 5 plants, most of the production being made by one outfit on Boob Creek. Boob Creek is the only creek from which there was any production of platinum. It was not separated from the gold, but was sold with it to a bank in Iditarod. The platinum in the gold was said to amount to about 1 per cent, which would make approximately 30 ounces of platinum produced.

About 22 plants, employing 130 men, were working in the Ophir

district.

The production at Marshall was about \$425,000, as compared with \$270,000 in 1916, mostly from 5 plants on Willow Creek, employing about 200 men, but some smaller plants were at work on Willow, Disappointment, and Elephant Creeks. A small amount of platinum occurs with the gold on some of the creeks at Marshall.

A strike is said to have been made on Anvik River by two men.

Platinum is reported in association with the gold.

KUSKOKWIM BASIN.

Only scanty data are at hand concerning mining in the Kuskokwim Basin. Production was limited, as usual, to the placers, and apparently was on about the usual scale. A dredge will begin operations at the upper end of Candle Creek in 1918. A new strike is reported on the divide between Nixon Creek and the North Fork of the Kuskokwim. Production in 1917 was about \$135,000.

SEWARD PENINSULA.

The value of the gold output of Seward Peninsula in 1917 was about \$2,600,000, which is somewhat less than that of 1916. In addition to this, stream tin, tungsten, and graphite were produced.

Gold production on Dime Creek was greater than the preceding year, six plants making a very large part of the \$150,000 produced by deep mining during late winter and early spring. An additional \$20,000 will about cover summer production, mostly from 3 open cuts. The platinum content of the gold is about 1 ounce to \$5,000, on the lower claims of the creek and on bench claims. It is somewhat higher on claims near the head of the creek. The platinum production amounted to about 35 ounces. In all, 17 plants worked during the winter and summer, employing about 85 men. This mining was done on 4 claims, but on other claims there was prospecting or setting up of plants for winter work. A number of men were engaged in this work for short periods during the summer, as well as in constructing ditches and in sluicing winter dumps.

About \$10,000 was produced on Sweepstakes Creek, between Bear Creek and Dime Creek, by 4 plants employing 11 men. This gold also contains a small amount of platinum, about an ounce having been

separated from the gold.

The gold production from Bear Creek is not known. Four outfits, employing 14 men, worked during the season. Some prospecting also

was done on this creek. A few pennyweights of platinum were

produced.

Approximately 750 men were employed in placer mining in Seward Peninsula, exclusive of those employed on dredges. They worked with 170 plants. About half the men were employed in the Nome and Council precincts.

Exclusive of dredge production, the gold produced from the Port Clarence precinct is estimated at \$27,000. That from the Kougarck precinct, likewise exclusive of dredge production, is estimated at

\$55,000.

Lode-mining developments for the year consisted for the most part of little more than the necessary assessment work. The high prices of lead and silver gave an impetus to the search for those metals in the vicinity of Lost River and on the Kugruk, considerable work having been done on some properties in both localities. A mill was set up on a gold-lode property near Bluff.

Twenty-eight gold dredges were operated on the peninsula in 1917—7 in the Nome district, 5 in the Solomon River district, 10 in the Council district, 2 in the Port Clarence district, 2 in the Fair-

haven district, and 2 in the Kougarok district.

During the summer two tin dredges were in operation in the York region—one on Buck Creek, the other on Grouse Creek below the mouth of Buck. In addition to the tin won by the dredges, about 6 tons of placer tin was sluiced by two men working on Iron Creek, which flows into Sutter Creek, a tributary of Buck Creek. One of the dredges was prospecting for future dredging ground, as the next season will finish up their present ground. Unusually heavy rains during the last week in August delayed the work of both dredges. About 25 men were engaged in the placer mining of tin.

Some development work was done on tin-lode claims at the head of Buck Creek, Tin City, Lost River, and Ear Mountain. No ore

was milled or shipped from any of these properties.

Most of the tungsten ore (scheelite) produced in 1917, as in 1916, came from Sophie Gulch. A few pounds was saved as the result of smaller placer operations on one of the small tributaries of Snake River, below Glacier Creek, and a small production was made on Sunset Creek in the Port Clarence district.

Work was done on two graphite properties during the summer of 1917. On one of these it consisted only of assessment work. On the other property about 4 miles of road were constructed from the property to Graphite Bay, an arm of Imuruk Basin. Some graphite was mined and was shipped to Graphite Bay by a gasoline tractor.

KOBUK RIVER.

During the year about 20 men were mining on Kobuk River, but they took out grubstakes only. The production of the district was probably about \$25,000. The ground is worked by open cut in summer, the deeper spots being worked in winter. Most of the mining is done on Klery Creek. One outfit was prospecting on Ambler River and another on the Noatak. It is reported that a strike was made at Walker Lake during the summer and that 4 or 5 men were rocking out \$10 to \$15 a day.

NATIONAL FORESTS.

The total receipts of the Tongass and Chugach National Forests for the fiscal year ended June 30, 1918, were \$96,939.07. The total cost of administration on the two forests for the same period was

\$54,411.67.

The total number of applications received for homesteads on the Tongass National Forest under the act of June 11, 1906, is 237; of this number 17 were received during the last fiscal year. The total number of applications received for homesteads on the Chugach National Forest is 405; of this number 18 were received during the last fiscal year. Patent survey is made by the Forest Service free of charge for all national forest homesteads just as soon as the applicant has complied with the law with respect to residence and has made a reasonable effort in cultivation.

On June 1, 1918, an agricultural reconnaissance was begun on the Tongass National Forest, for the purpose of locating all tracts of

agricultural land suitable for homestead units.

The total number of occupancy permits on the Tongass National Forest is 535; of these 211 were issued during the fiscal year 1918. The total number of occupancy permits on the Chugach National Forest is 180; of these 25 were issued during the fiscal year 1918.

There were 498 timber sales made on the Tongass and Chugach National Forests during the last fiscal year, 113 of these being on the Chugach. The total amount of timber cut on the Tongass National Forest for the fiscal year ended June 30, 1918, was as follows:

Saw timberboard feet	24, 841, 029
Pilinglinear feet	2, 928, 466
Cordwoodcords_	
	-•

Total in board feet, 41,157,012.

Chugach National Forest.

Saw timberboard feet	
Pilinglinear feet	858, 857
Cordwoodcords_	

Total in board feet, 6,744,698.

In addition to the above approximately 6,000,000 board feet was cut under free use for the Alaskan Engineering Commission, and

considerable free use was also granted on the Tongass.

A timber cruiser with a small launch is spending the entire summer on the west coast of Prince of Wales Island and adjacent islands looking up stands of spruce suitable for airplane lumber. Special effort was made during the last fiscal year and is now being made to get out all the airplane lumber possible.

Improvement work in trail and road construction was continued during the fiscal year on the Stikine River and at Warm Springs

Bav.

The Forest Service, in cooperation with the Geological Survey, is continuing and increasing its investigations of water power in south-eastern Alaska, which was begun in June, 1916. Fifteen Stevens automatic gauges are now making continuous records of the flow of the same number of streams. In establishing these gauges they were distributed throughout southeastern Alaska, so as to reach all the principal mining districts and regions containing large quantities

of timber suitable for the manufacture of pulp and paper. They are visited monthly by the Forest Service boats, for the purpose of winding the gauges and taking the record and making meter readings.

The national forests are not "Reserves," as every natural resource

within their boundaries is available for use now.

While I am not in full accord with the principles of national forests, particularly as applied to Alaska, still under present regulations development is possible within their confines. For the existence of the Chugach Forest I can see little reason, but should it, in the interest of conservation, be considered wise to continue the control of the forest as at present, there should be further elimination of non-forested areas.

PROGRESS ON GOVERNMENT RAILROAD.

During the fiscal year ended June 30, 1918, good progress has been made on the Government railroad. On the main line toward Fairbanks the track has been extended to Montana Creek at mile 210.6 from Seward. Grading has been completed to mile 232 and partially completed to mile 248. Work has been let to mile 265.

On the branch line leading from Matanuska Junction to the coal fields the track has been extended 37.7 miles to Chickaloon in the heart of the coal fields. This point is 74 miles from Anchorage and

188.4 miles from Seward.

From Anchorage south toward the end of the Alaska Northern Railroad at Kern Creek the grading is nearly completed, and there remain but 15 miles of track to be laid. Track laying is now in progress and the gap between Seward and Anchorage will be closed dur-

ing September.

On the Fairbanks division much grading has been done south of Nenana (mile 413), and this summer should see the grading completed to the Nenana coal field, mile 363. The past winter was an unusually severe one, the snow fall being very heavy and the periods of low temperature being unprecedently long. As a consequence the damage in the low country south of Nenana at the time of the spring breakup with its accompanying high water was considerable. The Nenana River, leaving the channel which it had followed for many years, broke over into Lost Slough and damaged long stretches of railroad grade. It has been necessary to change a number of miles of the railroad in this vicinity. This change is being rapidly completed.

Between Nenana and Fairbanks, in the vicinity of Happy station, about 6 miles of roadbed have been graded and a narrow-gauge track laid thereon connecting with the Tanana Valley Railroad. This allows the people of Fairbanks and vicinity to obtain a much needed supply of wood for fuel. Considerably more work in this vicinity is

contemplated this season.

Much work has been done toward the rehabilitation of the Alaska Northern Railroad, and more is being accomplished. At Seward a new engine house and repair shops have been erected; also a very attractive passenger and freight station and large warehouse.

At Anchorage work is progressing satisfactorily on the installation of a wharf and approaches, and the necessary dredging is being done to enable ocean-going vessels to land their cargoes without

lightering.

During the past year considerable development work has been done in the Matanuska coal fields. At Eska Creek the engineering commission is operating a mine which is now producing about 175 tons of coal per day, and in addition extensive prospecting work is being done to ascertain the extent of the deposits. At Chickaloon, where the best naval and coking coal is to be found, the commission has done a large amount of prospecting work. Private parties, working under a Government lease, are also doing development work in this vicinity. The commission has been able to produce sufficient coal to supply its own needs and the needs of the Cook Inlet country and to accumulate a large amount available for export whenever ocean tonnage is pro-In addition, lignite coal of good quality is being mined contiguous to the railroad at a point near the Little Susitna River. the Nenana coal fields some prospecting work has been going on, and several very promising veins are being developed, some in the immediate vicinity of the railroad.

Agricultural development is progressing favorably in the Matanuska Valley and at other points along the railroad line. The farmers have been hampered by lack of a market for their products. It is hoped that this will be gradually remedied by the future develop-

ment of the mining districts.

Very good reports come from the Willow Creek and other mining districts contiguous to the railroad. It is believed that when conditions become normal again, large development will take place in

both agricultural and mining industries.

The railroad, like many other enterprises, is suffering from the unusual conditions prevailing because of the great war. Many of our young men have entered the military service, and many more will undoubtedly follow. Others, tempted by the somewhat extravagant stories of high wages being paid in the States, have left the country. The forces working on the railroad have been reduced over 50 per cent. Despite these drawbacks, good progress is being made, and it is believed that the present year will see extensive additions to the operated line.

The loyalty of the commission employees has been conspicuously shown by their very liberal contributions to the Red Cross, and large subscriptions to the Liberty loan and purchase of War Savings

Stamps.

OTHER RAILROADS.

Besides the Government railroad being constructed and operated by the Alaskan Engineering Commission, the only other operating railroads are the Copper River & Northwestern Railway, from Cordova to Kennecott, and the Pacific & Arctic Railway & Navigation Co., a part of the White Pass and Yukon Route, from Skagway to White Pass, and the Yakutat & Southern Railroad, from Yakutat to the Seetuck River.

In his report for the last fiscal year, my predecessor in office drew attention to the fact that the Yakutat & Southern Railroad, while probably performing the duties of a common carrier, had escaped the payment of all taxes on the claim of being a private railroad.

This matter is now under investigation.

On the Seward Peninsula none of the railroads are publicly operated. The Council City & Solomon River Railway has been torn up and the salvage is awaiting shipment. The Seward Peninsula Railway, from Nome to Shelton may have the same fate meted out to it. It still serves a most useful purpose as freight is transported over it on light cars hauled by dog teams, but the road bed is rapidly disintegrating.

THE ALASKA FUND.

The revenues derived by the Federal Government from business and trade licenses outside of incorporated towns and which are passed to the credit of the Treasurer of the United States and by him credited to the Alaska fund under the act of Congress approved January 27, 1905, amounted to \$298,161.65 for the fiscal year 1918, as against \$259,370.24 for the fiscal year 1917, an increase for the year of \$10,829.41. The sums collected during the fiscal year 1918 in each of the four judicial divisions were as follows: First division, \$127,905.11 for 1918, as compared with \$88,852.11 for 1917; second division, \$8,597.68 for 1918, as compared with \$13,892.96 for 1917; third division, \$137,047.40 for 1918, as compared with \$116,185.88 for 1917; fourth division, \$19,611.46 for 1918, as compared with \$40,439.29 for 1917.

The increase in revenues for the fund is found in the first and third divisions and is due to the increased fisheries output. The net amount of cash received from the first judicial division, however, was only \$118,418.31; the difference, amounting to \$9,486.80, represents canceled fish hatchery certificates, rebates credited to certain salmon canneries for the release of salmon fry, in lieu of cash payments of taxes on their output. The net amount of cash from the third judicial division was only \$114,085.40; the difference, \$22,962,

represents hatchery rebates as above.

The total revenues received for taxes levied by the Federal Government within incorporated towns, from business and trade licenses, which were paid by the clerks of the district courts directly to the treasurers of the various towns, were: First division, \$59,538.45 for 1918, as compared with \$91,122.86 for 1917; second division, \$8,356.12 for 1918, as compared with \$11,756.15 for 1917; third division, \$11,017.86 for 1918, as compared with \$35,981.44 for 1917; fourth division, \$4,271.76 for 1918, as compared with \$34,126.37 for 1917; a total of \$83,184.19 for 1918, as compared with \$172,986.82 for 1917, a decrease of \$89,802.63, due principally to the loss of saloon-license revenues when the prohibition law became effective.

Besides the revenues derived by the Federal Government from business and trade licenses of all kinds in incorporated towns and outside of incorporated towns, taxes are levied on fisheries products as follows: Canned salmon, 4 cents per case; pickled salmon, 10 cents per barrel; salt salmon, in bulk, 5 cents per hundred pounds; fish oil, 10 cents per barrel, and fertilizer, 20 cents per ton. Section 260, Compiled Laws of Alaska, 1913, provides that the catch and pack of salmon in Alaska by the owners of private salmon hatcheries operated in Alaska shall be exempt from all license fees and taxation of every nature at the rate of 10 cases of salmon to every thousand red or king salmon fry liberated; that is, a rebate of 40 cents is

allowed on every 1,000 red or king salmon fry released.

Sixty-five per cent of the money paid into the Alaska fund is appropriated for the construction and repair of roads and trails outside of incorporated towns and to be expended under the direction of the board of Alaska road commissioners, 25 per cent for the maintenance of schools outside of incorporated towns, and 10 per cent for the relief of indigents, under the act of Congress approved March 3, 1913.

TERRITORIAL FINANCES.

The Territory has its own fiscal system, controlled by laws enacted by the Territorial legislature, which is entirely separate and apart from the revenues derived by the Federal Government from business and trade licenses and which are covered into and disbursed from the Alaska fund in the Federal Treasury. The Territorial revenue act, passed by the Alaska Legislature, session of 1917, imposes the following license taxes: Attorneys at law, doctors, and dentists, \$10 per annum; automobiles operating for hire, \$5 per annum; bakeries doing a business in excess of \$500 per annum, \$15 per annum; electric light and power plants, one-half of 1 per cent of the gross receipts in excess of \$2,500, and one-half of 1 per cent of the net profits from supplies sold; employment agencies operating for hire, \$500 per annum; salmon canneries, 41 cents per case on kings, reds, or sockeyes, 2½ cents per case on medium reds, 2 cents per case on all others; salteries, 21 cents per 100 pounds on all fish salted or mild cured, except herring; fish traps, fixed or floating, \$100 per annum, so-called dummy traps included; cold-storage plants, a graded tax from \$10 to \$500 per annum, according to amount of annual business done; fish-oil works, using herring in whole or in part in the manufacture of fish oil, \$2 per barrel; fertilizer and fish-meal plants, using herring in whole or in part, \$2 per ton; laundries, a graded tax, from \$25 to \$75 per annum, according to amount of business done; meat markets, a graded tax, from \$25 to \$500 per annum, according to amount of business done; mining, 1 per cent of the net income in excess of \$5,000; ships and shipping, vessels registered in Alaska not paying a tax or license elsewhere, doing business for hire or engaged in the freight and transportation business, \$1 per ton on net tonnage, customhouse measurements; telephone companies, one-half of 1 per cent of gross receipts in excess of \$1,500; waterworks, one-half of 1 per cent of gross receipts in excess of \$2,500; public messengers, \$25 per annum. The taxes collected under this act, also other taxes and revenues accruing to the Territory, are covered into and disbursed from the Territorial treasury. The fiscal year of the Territory corresponds to the calendar year. The condition of the Territorial treasury for the fiscal year ended December 31, 1917, is as follows: Total receipts from all sources, \$1,056,447.06; total disbursements under the various appropriations made by the Territorial legislature, \$373,953.95; balance of cash on hand December 31, 1917, \$682,493.11.

ALASKA INSANE.

Under contract with the Secretary of the Interior the legally adjudged insane of Alaska are cared for at the Morningside Hospital, near Portland, Oreg., the contractor for the last 14½ years being the Sanitarium Co. In all, 743 persons have been admitted to the hospital. On June 30 there were 211 patients in the establishment, an increase of 2 over the fiscal year 1917. The distribution was as follows: Males, 186; females, 25. There were 55 receptions during the year, 37 discharges, and 16 deaths. There are three doctors in attendance for 225 patients, as compared with one doctor for about 300 patients in the average State asylum. Commencing from July 1, 1917, the rate paid per patient was \$35 per month. This rate, however, was based upon conditions as of that date and is not an adequate compensation on which to furnish the best of care and subsistence and to defray the heavy overhead expenses. Relief should be afforded The Sanitarium Co. at the earliest possible moment. At my request an unannounced inspection of the sanitarium was made by a resident of Alaska in whom I have confidence, who reports to me that all patients are as well cared for as circumstances will permit. He conversed with several of the inmates with whom he was acquainted and found little complaint. A suggestion made concerning more room for the recreation of the patients is being complied with, as well as several minor suggestions. Patients are afforded every opportunity for outdoor exercise and for work on the sanitarium farm if they so desire. The sanitarium was also visited by the Assistant to the Secretary of the Interior.

DETENTION HOSPITALS.

Reference was made in report of the governor for 1917 of lack of funds for the proper maintenance of the detention hospitals for the insane located at Fairbanks and Nome. The hospitals were constructed in 1913. At Fairbanks partial use has been made of the hospital, but at Nome the building has never been occupied. At Nome the large Catholic hospital has been closed and all patients are now being treated at the hospital for the natives, which is inadequate for the purpose. It seems as though an arrangement might be effected whereby the detention hospital might be utilized to care for all hospital patients, both native and white, and thus do away with the present unsatisfactory service.

PIONEER'S HOME.

The Pioneer's Home is an institution entirely supported by the Territory. Any worthy person who has been a resident of Alaska fon five years preceding and who is from any cause incapable of self-support may make application for admission to the home. The buildings at Sitka formerly used as a barracks for the United States marines are occupied by the home. The home serves a most useful purpose. Old pioneers who have spent their years on the outskirts of civilization and who, through adversity, can no longer support themselves can find in the home a haven of rest in which to spend their declining years. The buildings are still the property of the

Navy Department, but the title should be vested in the Territory of Alaska, so that needed improvements and additions may be safely made. On June 30, 1918, there were 64 inmates, as compared with 70 the preceding year; there were 22 admissions; 7 were discharged; 1 committed to the asylum at Morningside; and 18 deaths. Of those discharged, 3 were pensioned by the Territory.

COAST AND GEODETIC SURVEY.

The Coast and Geodetic Survey in the continuance of the hydrographic surveys of Alaskan waters operated two vessels during parts of the year. The purpose in view was a closer survey of the approach to Cross Sound, the principal entrance from western to southeastern Alaska. As a result of the labor shortage caused by the war, the Coast and Geodetic Survey had difficulty in maintaining the necessary complements of men on its vessels in Alaskan waters, and this became more and more acute until one of the vessels had to be withdrawn from the surveys before the close of the season and was unable to proceed to the field in the spring of 1918.

During the course of the year two wire-drag parties were put into Alaskan waters by the Coast and Geodetic Survey, and they covered portions of the inside passages of Frederick Sound and Lynn Canal. Many unknown dangers to shipping were found by these wire-drag parties and now appear on the charts issued by the Federal Government, so that shipping can proceed with an assurance of safety

in the waters that have been covered by surveys of this kind.

For the purpose of obtaining data for the prediction of tides and supplying magnetic tables, a permanent tidal station, where continuous records of the height and time of tides were obtained, was maintained at Craig throughout the year; and a magnetic observatory, where magnetic and seismological records were obtained throughout the year, was maintained at Sitka.

Agencies in Alaska for the sale to the public of the charts, tide tables, coast pilots, etc., issued by the Coast and Geodetic Survey,

were as follows:

Cordova: Northern Drug Co. Haines: N. G. Hanson. Juneau: The old post-office store. Ketchikan: Ryus Drug Co. Kodiak: W. J. Erskine Co. Petersburg: Petersburg Packing Co. Seward: The Seward News Co. Sitka: Charles M. McGrath. Valdez: Owl Drug Co. Wrangell: F. Matheson.

During the summer of 1917 two primary triangulation parties operated in southeast Alaska. The object of this work is to furnish the control for the charts and maps, and in cooperation with the geodetic survey of Canada to place the charts and maps of all Alaskan territory on the final geographic datum, called the North American Datum. When this has been accomplished contiguous charts and maps will not have gaps, overlaps, and offsets, which when present are sources of great trouble to the map makers and user. Congress has authorized geodetic surveys in the interior of Alaska, and these will be begun as soon as engineers and funds are available. This work consists of determinations of latitudes, longitudes, bearings, distances, and elevations, without which detailed mapping operations can not be carried on in a satisfactory manner.

That Alaska is greatly benefiting by these Federal surveys is not to be denied, and it is the hope that eventually facilities will be provided so that such surveys can be executed with the promptness that the needs of commerce demand. That the officials of the Federal Government are awake to this need is shown by the issuance during the year by the superintendent of the Coast and Geodetic Survey of a document under the title of "Safeguard the Gateways of Alaska: Her Waterways." Therein the situation is admirably stated and cogent reasons are given why means should be more abundantly provided for the prosecution of this work that is so much needed for the promotion of commerce and the safeguarding of life and property.

It is hoped that when war conditions have ceased to exist that Congress will make ample provisions for surveys and suitable ships, so that there may be continued progress along our coast. The loss in ships due to uncharted coasts has been enormous, and this loss, to a certain extent, is reflected in the high freight rates prevalent. Over 100 vessels, valued at over \$8,000,000, have been wrecked in Alaskan waters, the loss of many of which is directly traceable to lack of surveys. Included in this number is the revenue cutter *Tahoma*, wrecked in 1914 on an uncharted rock. The value of the *Tahoma* was estimated at \$300,000. There is record also of over 300 smaller

vessels, valued at over \$5,500,000.

AIDS TO NAVIGATION.

Eleven new lights were established in Alaska by the Bureau of Lighthouses since June 30, 1917. Three lights were changed from fixed to flashing, and 1 gas buoy, 12 buoys of other types, and 5 beacons were established.

Before the present season is over 16 more new lights will be established, as well as two new gas and bell buoys and an unlighted day mark. A considerable number of new aids to navigation will be installed before the close of the present fiscal year, which ends June 30, 1919, and working scow and other equipment will be purchased dur-

ing the year.

The Bureau of Lighthouses will also recommend to the Department of Commerce that appropriations be asked of Congress as follows: Seventh-five thousand dollars to continue the work of installing new aids to navigation in Alaska; \$125,000 for a light and fog signal at Cape Spencer, Cross Sound, to replace an automatic acetylene light now established at that place; and \$70,000 for improvements at existing stations for which funds are not now available.

The total number of aids to navigation in Alaska, including lights, gas buoys, fog signals, buoys, and day marks, in commission at the close of the fiscal year ended June 30, 1918, was 437, including 160 lights and 7 gas buoys, representing an increase of 130 lighted aids

since June 30, 1910, or 351 per cent.

FEDERAL ROADS IN ALASKA.

The Alaska Road Commission, constituted by act of Congress approved January 27, 1905, is composed of three officers of the Army. who report to the War Department through the office of the Chief of Engineers.

The commission was organized "for the maintenance and construction of roads, bridges, and trails," and for the "construction and maintenance of military and post roads, bridges, and trails, Alaska." The total expended for all construction and maintenance to June 30, 1918, is \$4,788,576.93. Of this amount \$2,820,000, or 59 per cent, was appropriated at different times by Congress and \$1,968,576.93, or 41 per cent, from the Alaska fund. One thousand and six miles of wagon road, 673 miles of sled road, 2,346 miles of trail have been constructed and maintained since 1905. Approximately 300 miles of wagon road has a light gravel surface.

A total of \$597,020.18 was expended during the fiscal year ended June 30, 1918. Of this amount \$274,428.45 was for maintenance of existing roads, bridges, and trails and \$322,591.73 was charged to construction, most of the expense of construction being for extensive improvement of present roads and trails. During the year the mileage was increased as follows: Twenty-six miles of wagon road, 50 miles of winter sled road, and 55 miles of trail. In addition to this

new work, several new bridges were constructed.

While the funds at the disposal of the commission do not permit the construction of so-called "automobile roads," a fairly accurate census of automobiles and trucks in the Territory show 386 machines

are being operated.

The congressional appropriations have always been included in the annual appropriations for the support of the Army. The board is required by law to expend the funds received from Congress on projects which are strictly considered as military and post roads, bridges, and trails. The main project coming under this head is the Valdez-Chitina-Fairbanks wagon road and all the various connecting roads and trails. This comprises a system of roads and trails approximately 3,750 miles in length and reaching practically every town of importance west of the one hundred and forty-first meridian with the exception of towns along the Copper River Railroad and a few places along the coast. Mail is carried overland from Chitina to Arctic City and to Caro, above the Arctic Circle; to Eagle on the Upper Yukon near the Canadian boundary; to Fairbanks, Fort Gibbon, and lower Yukon points; to St. Michael, Kotlik, Nome, and the surrounding country, terminating at Candle, on Kotzebue Sound. Seward is the southern terminus of branching roads and trails, which join the main system at various points on the Yukon River. By this route Anchorage, Knik, Cache Creek, Ophir, Iditarod, Lewis, Kaltag, and many other districts are reached.

In the matter of expenditure of the Alaska fund, the commission is given more latitude and allotments are permitted for projects which are not considered as military or post roads. Funds have never been abundant and the commission has not been in a position on this account to undertake a great many projects of merit. The commission is required to maintain present roads, improve these roads as much as traffic conditions and available funds will warrant and to undertake the construction of new work after the former requirements have been fulfilled.

Prices of labor, supplies, and material are high, and until conditions return to normal the commission will be greatly restricted

in extending its present system.

There were formerly four different organizations having charge of road work in Alaska. In addition to the Alaska Road Commission, the United States Forest Service, the United States Office of Public Roads, and the Territorial road commission were engaged in road work. All of the Federal work is now combined and the president of the Alaska Road Commission, in addition to his duties as such, is in local charge of all work under the jurisdiction of the Federal bureaus. This makes a very effective working arrangement, reduces expenses, and insures the maximum benefits from cooperation. The Secretary of Agriculture is not releasing funds for the work of the Office of Public Roads and Forestry Bureau in Alaska during the present emergency. The funds stand to the credit of the Territory and will increase at the rate of approximately \$46,000 per year up to and including the fiscal year ending July 30, 1926. July 1, 1918, the fund amounted to \$139,084. The act appropriating this fund requires that it be expended in cooperation with local road organizations (in the case of Alaska, with the Territorial road commission). To secure the benefits of this fund it is necessary for the local authorities to enter into a formal contract, termed a cooperative agreement.

Approximately \$325,000 is available for road work during the present fiscal year (1919). The crying need of the Territory is for roads. Alaska will never reach a high state of development until a system of good roads covers the entire country. Almost all routes of travel cross long stretches of boggy country over which it is impossible to drag a wagon. In consequence development is along primitive lines when once the established routes of transportation are abandoned. The scope of work of the board of Alaska Road Commissioners could well be doubled or trebled without increasing their overhead expense. Appropriations of \$750,000 or \$1,000.000 per annum would only be a fair amount with which to continue their excellent

and constructive work.

TERRITORIAL ROADS.

In addition to roads constructed and maintained by the Alaska Road Commission, the Territory has appropriated \$200,000 yearly for roads not otherwise provided for; this amount is equally divided among the four judicial divisions to be expended under the direction of a road commission elected in each division and an advisory body of two assistant road commissioners appointed by the governor.

In the first division a portion of the funds are being utilized to dredge a waterway for small craft from Gastineau Channel to Fritz Cove on Stephens Passage, thus allowing fishing boats coming from the north to proceed directly to Juneau instead of making the long detour of Douglas Island. Approximately 200 miles of wagon road are constructed and maintained and 52 miles of winter sled roads; 234 miles of winter road in the second division are staked annually. Relief cabins are erected at many places where winter travel is dangerous.

AGRICULTURAL EXPERIMENT STATIONS.

The summer of 1917 was very unfavorable to agricultural operations, except for one redeeming feature, and that is that killing frosts were from two to three weeks later than normal. This fact prolonged the growing season to such an extent that all the crops at the stations at Rampart and Fairbanks, which are chiefly devoted to grain growing, matured perfectly, so that in spite of the fact of a cold wet summer the crops matured, owing to the prolongation of mild weather.

There are now five agricultural experiment stations operated under the auspices of the States Relations Service. Each station has been assigned its own specific task, and a clearer conception of the work as a whole can best be had by taking up the work of each station in succession.

SITKA STATION.

The Sitka station is devoted entirely to horticulture, for the reason that the heavy rainfall in the coast region prevents the growing of grain except during abnormally favorable seasons. At Sitka they experiment with orchard fruits, berries, vegetables, and ornamentals. In the test orchard there are a few trees each of some 15 or 16 different varieties of apples. Only two or three of these have borne fruit to maturity, and they are Yellow Transparent, Lowland Raspberry, and Keswick Codlin. The cloudy and cool summer of 1917 was so unfavorable that not a single apple matured. Several varieties of cherries were a failure for the same reason.

Of the small fruits, gooseberries, currants, and raspberries were a success. These bush fruits can be grown throughout the coast region

of Alaska every year almost without failure.

Experiments are made somewhat extensively with strawberries and they have produced hundreds of varieties of hybrid strawberries, the result of the crossing of cultivated berries with the wild berries of the Territory. About 10 per cent of the varieties produced prove to be of sufficient value to warrant further trials. These hydrid strawberries are all hardy in the coast regions and many are hardy in the interior, where they will stand temperatures of 60° below zero without other protection than that afforded by the snow. Many of these new creations have been tried at the experiment stations at Rampart and Fairbanks for several years past and found to bear fruit abundantly. It is permissible to point out that the production of these berries will be of inestimable value to the Territory for all time to come. Heretofore strawberries could not be grown in the interior because the plants invariably died during the winter.

The characteristics of these hybrids are: First, that the plants are much more vigorous and grow to larger size than either of their parents; second, that many of the berries are of very large size and of delicious flavor that partakes of the flavor of the native wild berry. But they are also soft and can not bear shipment to distant points. They are especially adapted to home consumption and to

local market.

At Sitka station they also experiment with the production of new varieties of potatoes, and at this writing have upward of 300 varieties growing which have been raised from seed balls at the station. It is not expected that many of them will be of much value, but even if only a few varieties can be produced here in Alaska which shall be adapted to our peculiar climate the labor will be well spent.

The ordinary hardy vegetables, cabbage, cauliflower, peas, and root

crops of all kinds, were a success.

A number of hardy shrubs and perennial flowering plants are under test at the station and many of them can be grown success-

fully throughout the coast region.

It is at this station that they also propagate a long line of the aforementioned fruits and small fruits with a view to having them tested by settlers in other sections of the Territory, and for this purpose the plants are distributed free of charge. The chief value of this distribution is that the Territory gradually becomes stocked with useful plants and some valuable information is also obtained from their behavior in the various districts.

RAMPART STATION.

The northernmost station is located at Rampart in latitude 65° 31'. This station is chiefly devoted to the breeding of grains and leguminous plants. Upward of 100 varieties of grains of all kinds have been tested there and many new varieties have been created at that This is done by cross-pollinating existing varieties with each other; for instance, certain varieties of barley mature early, but in other respects are inferior. Other varieties are of superior quality, but they mature too late for that latitude; that is to say, they are usually caught by early frosts before they ripen. By crossing some of these latter with an early variety some of the offspring will be vigorous growers and heavy producers, and at the same time they have acquired the earliness of the early parent. There have been produced at this station several varieties of barley which are early enough to mature even in unfavorable seasons and at the same time are superior to either parent in productiveness. The same class of work is being done with spring wheat and oats. It is found that grains that are born and bred, so to speak, in the Alaska climate are better adapted to Alaska than varieties introduced from the outside. It is slow work, but the success has been such that in the course of a few years more it may be reasonably expected to have established varieties of wheat, barley, and oats that can be counted on to mature in interior Alaska.

Alfalfa is one of the forage plants that have been under experiment at that station for a number of years. Seed of a hardy species of alfalfa was obtained from Siberia through the Department of Agriculture some nine years ago. This species which has yellow flowers is found to be entirely hardy in interior Alaska, and energies have been directed toward the selection of desirable types of this species and the propagation of these types. There are now about ten acres of this alfalfa at Rampart station, all of which is devoted to seed growing in the hope that eventually enough seed may be raised so that the whole of interior Alaska can be stocked with this valuable plant. The experimental station is doing a valuable work for the Territory in the breeding of grains, alfalfa, and other plants.

FAIRBANKS STATION.

The Fairbanks experiment station is located in a fine agricultural region which is being well settled with farmers. The station is there-

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fore operated chiefly as a model farm so as to afford an object lesson to those who visit it, but it is also used for the growing and increase of seed from new varieties produced at Rampart, or introduced from other sections, and the grain produced is either sold for seed at a nominal price or it is distributed free of charge among the farmers for the purpose of introducing among them those varieties of grain which have been found to successfully grow in the interior. Upwards of 1,200 bushels of grain were thrashed out from the 1917 crops.

A certain variety of turnip which was introduced from Finland by the Department of Agriculture has been found to be well adapted to the Alaska climate and in some respects it is the best turnip that has been tried at the stations. Upwards of 3,000 pounds of seed from this turnip have been produced at the Fairbanks station during the last few years. This seed is distributed free of charge to settlers all

over the Territory.

The experimental station has also undertaken certain lines of cooperative work with the farmers of the interior. The superintendent of the Fairbanks station has the immediate charge of these cooperative experiments. Certain amounts of seed grain produced at the Fairbanks station are furnished to those farmers who desire to cooperate. These grains are then seeded under the instructions of the superintendent of the cooperative work, who also gives advice and suggestions on the problems that confront the farmer. The climatic conditions at Fairbanks are somewhat more favorable than they are at Rampart. The rainfall is slightly greater and the season between frosts a little longer. In 1917 there were 123 days from the last frost in the spring until the first frost in the fall, which is about three weeks longer than normal.

KODIAK STATION.

The Kodiak station is devoted entirely to the breeding of live stock. It is stocked with a herd of Galloway cattle which are well adapted to the country. They do well on the native pastures. Some two years ago a small herd of pure-bred Holstein-Friesian cattle was introduced. The object of the introduction is twofold—first, to ascertain how that breed will prosper under the climatic conditions of the western coast region and, secondly and chiefly, for the purpose of cross-breeding them with the Galloways in an effort to establish a hardy breed indigenous to Alaska which shall partake of the hardy quality of the Galloways and, in some degree, of the milking qualities of the Holstein. This experiment has not proceeded far enough to make any report on the results.

Another line of experiment is under way at this station. It was found that some of the Galloway cattle had become infected with tuberculosis. These affected animals were segregated from the sound part of the herd, and they are now bred by themselves. Their calves are fed on sterilized milk, the object being to ascertain if healthy calves can be reared from parents affected with tuberculosis.

THE MATANUSKA STATION.

A station was established in the Matanuska Valley April 1, 1917. Nothing but pioneer work could be done during the first year, but

some buildings have been erected and about 12 acres of land cleared which will be cropped the current year. The clearing will be extended as fast as money is available to pay for the labor. It is believed that the Matanuska Valley is well adapted to nearly all phases of farming, and the station will be charged chiefly with the work of assisting the farmers with the problems that confront them in all lines of their work. It is believed that live-stock breeding, and particularly dairying, will be important features of farming in that region. The station will do its best to cooperate with the Alaskan Engineering Commission in the development of territory along the line of the railway.

The railway will do more to develop interior Alaska than all other agencies put together. Adequate transportation facilities and a very large reduction in freight rates are the two essential features in the work of development. It is devoutly to be hoped that for the good of Alaska railroad construction under the direct supervision of the Government may become a fixed policy for this Territory, and that the work may be prosecuted with vigor until the several projected lines

are completed.

Referring now to the work of the experiment stations under way for the current season, it may be stated that the experiments outlined above are continued at the several stations. Cold weather continued until late in the spring, and seeding was not completed until the beginning of June, which is some two weeks later than normal. However, June and July have been favorable from the standpoint of climate, and if good weather continues it is certain that Alaska farmers will have a prosperous season. There are many millions of acres in interior Alaska which can be converted into productive farms as fast as transportation facilities are provided and fares and freight rates are reduced so that settlers can afford to come in and open up the country as markets are provided.

COAL.

The coal-using districts of Alaska have suffered greatly through the increased cost of coal and through the inferior quality of Wash-

ington and British Columbia coal now being shipped.

The two most prominent fields of Alaska, the Matanuska and Bering River fields, are as yet not developed on a large production basis, and so are not commercially important factors; but there is no reason why all Alaskan demands should not be immediately satisfied with Alaska coal, providing transportation from the coal fields can be procured. It is evident, to my mind, that no permanent relief can be found with the existing steamship lines, as their southbound space is not only crowded with ore or canned fish, but their rates on southbound coal will not allow of competition with coal from British Columbia. If the Government is to furnish commercial coal from its operating mines at Chickaloon, steps should be taken to acquire a steam barge or barges on which to make distribution.

In the interior of Alaska coal is being mined in the Nenana coal fields, but so far is only being used to a limited extent by the Alaskan

Engineering Commission at Nenana.

In the Matanuska field the first mine operated was the Doherty coal mine, about three-fourths of a mile from the railroad right of way on Moose Creek. Following this the Eska Creek Coal Co. opened a property $2\frac{1}{2}$ miles from the right of way on Eska Creek. Later this property was taken over by the Alaskan Engineering Commission.

Coal leases Nos. 2 and 3 on Moose Creek have been let to Mr. Henry Baxter of Anchorage, who at the present time is prospecting the property. During the past season while the roads were in good condition for sledding, Mr. Baxter shipped about 5,000 tons from this property.

Leasing units Nos. 10 and 11 are controlled by the Chickaloon Coal Co., which is prospecting the same by two cross-cut tunnels

and is preparing to instell a diamond drill.

Leasing unit No. 12 was set aside June 18, 1917, by an executive order of the President for the use of the Alaskan Engineering Commission, which is at the present time prospecting the property.

In June of 1917 the Eska Creek Coal Co., not having sufficient finances to open their property on a comparatively large scale, sold the improvements on the lease to the Alaskan Engineering Commission, since which time the commission has mined its own supply of fuel. The output at present from this property approximates 5,000 tons per month. The commission employed approximately 160 men at its two mines, while the other lessees probably employ between 40 and 50.

In the Bering River field one unit is under lease and is being extensively prospected.

PETROLEUM.

Petroleum is now being produced in paying quantities from a few shallow wells near Katalla, with further drilling in progress. There are seepages and other oil indications on the Kenai Peninsula, the Seward Peninsula, the Alaska Peninsula, Cook Inlet, at Yakataga, and persistent rumors of oil pools found near the line of the Government railroad north of the Alaska Range. The finding of oil in quantity in any one of these localities would be a wonderful boon to the country, which is going on an oil-burning basis as rapirly as price and supply will permit. Petroleum found is a very high grade oil with a paraffin base. The small plant at Katalla produces gasoline and distillate, the residue being sold for fuel oil. As matters now stand, with the exception of a few patents, the oil lands of Alaska are entirely tied up in Government withdrawal. When legislation now before Congress has been enacted, an attractive field will be opened up to the prospector financially able to bear the expense incident to oil exploration.

WATER-POWER INVESTIGATIONS IN SOUTHEASTERN ALASKA.

The streams of Alaska have been important factors in its industrial growth. The success of placer mining in northern and central Alaska has depended primarily on the water available for hydraulicking and dredging, and in southeastern Alaska water power has long been used by mines, canneries, sawmills, and other industries, although until recently most of the plants have been small.

Since 1906 the United States Geological Survey has made systematic studies of the water resources of Alaska. Investigations with special reference to placer mining have been made in Seward Peninsula and the Yukon-Tanana region, and reconnaissance surveys for water power have been made about Prince William Sound, Copper River, Kenai Peninsula, and in other parts of southern Alaska.

During the last few years some large water-power plants have been installed near Juneau to supply power for mining, and attention has been called to the feasibility of improving other power sites in that region and elsewhere in southeastern Alaska to meet the increasing demand for power to be used in mining, lumbering, and fisheries and the possible future demand for its use in the manufacture of wood pulp and electrochemical products. Lack of definite information in regard to the quantity of water available and other physical factors that determine the feasibility of a power site has been one of the principal impediments to development. For this reason a systematic investigation designed to determine the location and the feasibility of water-power sites in southeastern Alaska was begun by the Geological Survey, in cooperation with the Forest Service, in the spring of 1915.

The practicability of a water-power site depends on the quantity of water available, the fall, and the possibility of storing water. Information in regard to fall and storage can be obtained by surveys at any time, but the volume and distribution of flow can be determined only by observations extending over a period of several years, as future flow must be predicted from that of the past. In beginning the investigations, therefore, the collection of stream-flow data was given precedence, and constituted the principal work. Some approximate information, however, has been obtained in regard to the elevation above sea level of the stream bed at possible dam sites and

area of lakes available for storage reservoirs.

The available power sites in each area were carefully considered, and gauging stations established by the Geological Survey, in cooperation with the Forest Service, at those sites which apparently afforded the greatest opportunities of development. In addition the Geological Survey and the Forest Service have cooperated with private individuals and corporations in the installation and maintenance of gauging stations.

Records have been collected in accordance with the standard methods used elsewhere in the United States by the Geological Survey. Owing to the inaccessibility of the stations, water-stage recorders were used at all the stations except that on Ketchikan Creek, and cables have been installed from which discharge measurements

are made.

Records of flow are now being obtained at 23 gauging stations.

The data collected at the gauging stations, which include a general description of each station and tables showing the results of discharge measurements and computed daily discharge from date of establishment of station to December 31, 1916, are published in United States Geological Survey Bulletin 662-B. The data for 1917 have been computed and will be published in a subsequent bulletin.

Copies of computed records not yet published and preliminary estimates of flow for any station can be obtained by application

to the Director of the United States Geological Survey, Washington, D. C., or to G. H. Canfield, engineer of the Geological Survey, at Juneau, Alaska.

TOURIST TRAVEL

Reports from the various transportation companies operating to and in Alaska show that the tourist travel during the present year was but little more than half that of last year, which in turn was much less than that of preceding years and before America entered the war. Also, it was noticed this year that tourists visiting this Territory were mostly women and clderly men, the bone and sinew of the Nation being conspicuous by its absence, that element being engaged in something more profitable than pleasure junketing.

HOME GUARD.

It has been impossible to organize a National Guard in Alaska, owing to the decrease in population, and to the fact that a very large per cent of the able-bodied men have entered the country's service. However, the men remaining in the Territory, those of deferred classification, rejected on account of some slight physical defect, and those over age for the draft, have formed home-guard organizations and have been given such support by the governor as is possible. Rifles have been procured from the War Department, and drilling has been earnestly kept up. There are now 8 home-guard organizations in Alaska, distributed as follows: Juneau, 100; Ketchikan, 53; Seward, 30; Sitka, 50; Cordova, 150; Anchorage, 70; Fairbanks, 112; Eagle, 16; a total of 581.

Instructions in the manual of arms and in squad and company

formation are held in rented armories twice a week.

While the guards as yet can only be used in an emergency, after being deputized by the United States marshal, still the moral effect on the men and on the community is most noticeable. The younger members who have been called to the colors are much more quickly fitted for military life, as is shown by the large number of enlisted or inducted members who have almost immediately been raised to non-commissioned rank. It is hoped that the coming Congress will give them the standing of constabulary, and that the territorial legislature will appropriate sufficient funds to make them a uniformed body and to provide for more extensive instruction. I believe it the duty of every able-bodied man to provide himself with a certain amount of military training and to be ready to answer any call at a moment's notice.

SELECTIVE SERVICE.

At the time of forwarding the annual report, information on the operations of the selective-service law had been compiled to September 30 and is therefore submitted:

By proclamation dated June 30, 1917, the President set the period between July 2 and September 2, 1917, inclusive, as the time for registration in the Territory, under the act of May 18, 1917.

To accomplish the purpose of the act, 21 local and 4 district boards (one in each judicial division of the Territory) were created. Local

board No. 15, at Chena, was abolished in 1917. Local board No. 22, at St. Michael, was created in 1918. Their jurisdiction extended over an area which is one-fifth that of the United States proper and is handicapped with inadequate and, at times, primitive means of transportation. In the greater portion an unsatisfactory and intermittent mail service prevails. In many instances three months elapse before replies to communications are received. These conditions have forced the omission herefrom of compiled data relative to many interesting features in connection with the effect of the draft on industries, particularly those of mining and fishing.

Eleven thousand and seventy-one persons were registered, at a cost of \$380.90, or 0.032 cents per registrant, as compared with the national average of 54 cents in 1917. Thirty-eight per cent of the above were aliens, of whom approximately 1,000 were alien enemies, 326 being Germans. One hundred and eighteen were colored per-

No Indians were registered.

Under orders from the Provost Marshal General those registrants who claimed residence in other States or Territories or who gave permanent addresses therein were transferred to their respective jurisdictions. Local boards state that these transferred cases have caused nearly as much work, investigation, and trouble as those remaining. Transferred cases numbered 4,496, leaving our net registrants at 6.575. Exceedingly few cards of Alaskans who registered in the States were transmitted to the Territory, although their number was considerable.

On September 1, 1918, the report of registrants in class 1 disclosed the following:

Remaining finally classified in class 1 and examined physically and ac-	
	849
Limited military service	278
Remedial defective group	34
	120
Delinquents	837
	223
Inducted and called for induction	295
Total	636
To this number should be added the following:	
Inducted under call 193	696
Credits for enlistments, voluntary inductions, etc.	
Grand total	 496
It will thus be seen that 53.2 per cent of our registrants have be	en

classified in class 1.

The 837 delinquents and the 223 not physcially examined constitute 16 per cent of the number registered. This high ratio is due primarily to the following causes, listed in the order of their importance:

(1) The high percentage of illiterate and non-English-speaking

aliens in the Territory.

(2) Vast extent of the Territory. Some registrants are from 500 to

1,000 miles distant from the nearest local board.

(3) Infrequent mail service to remote points and consequent failure to receive orders within the allotted time.

(4) The absence of physicians in many localities. Many registrants are located several hundred miles from the nearest medical examiner. Many have traveled hundreds of miles at their own ex-

pense for purposes of examination and induction.

By October 1, 1918, 2,200 registrants (or 33½ per cent of the gross number) will have been inducted. In addition thereto many hundreds, impatient for action, enlisted prior to the registration period or joined the British and Canadian forces. Alaska has furnished at least 3,000 men to the colors, or approximately 12 per cent of its present total white population.

The expense of accomplishing the draft for the first 15 months will not exceed \$12,000 or \$5.45 per man inducted. The national average

for 1917 was \$4.93.

Incomplete returns disclose that 118 men were physically rejected out of 1,220 examined by local boards, an average of 10 per cent, as compared to the national average of 29 per cent. Of those examined by local boards and accepted, who were again examined at mobilization camps, available data at this time disclose that 18 out of 681 were rejected by the camp surgeons, a ratio of 2.66 per cent as compared with the national ratio of 5.8 per cent. When this information is complete it will furnish a most interesting medical and sociological study.

Under the provisions of the act of May, 1918, persons who attained the age of 21 years since September 2, 1917, were registered in the period between July 2 and September 3, 1918. Returns thereof are yet incomplete. It is estimated the number will not exceed 250

including Indians.

By proclamation on September 18, 1918, the President set the period between October 15 and December 16, 1918, inclusive, as the time for registration in Alaska, under the act of August 31, 1918. Indians will be included.

To the members of the local boards too much credit can not be extended for their intelligent and loyal efforts. Their labors have been intense and, heretofore, uncompensated. The district exemption boards, medical, and legal advisory boards and their associates have performed a great work with efficiency and fidelity and deserve the gratitude of the country.

MAIL SERVICE.

It is to be regretted that in the interest of economy the mail service in the Territory is being constantly impaired. If the Post Office Department could be only brought to realize that on their service the growth of the country is as much dependent as on the work of the more typically constructive departments, a world of good would be accomplished. In the past mail contracts, it may be said, have been largely in the nature of a subsidy for ocean-going steamships to call at the smaller towns along the coast and in the islands, but incidental to the mail contracts the settlers in remote parts have been able at least to keep in touch and transact business with the outside world. Although writing subsequent to the fiscal year 1918, I consider the situation of sufficient gravity to make a brief mention of some of the hardships entailed under the present system. After August 1, 1918, all through mail contracts to southeastern and western Alaska

were discontinued, first-class mail being sent by express and secondclass mail and parcels post by freight. Mail clerks were removed from all steamers. Contracts for delivery of mail to outlying places are given to small carriers, usually launches having little or no cargo or passenger space. Particularly during the winter months, when there is insufficient freight offering to induce steamers to make the smaller ports, is the small merchant or individual cut off from any opportunity of receiving needed supplies. Shortly after August 1 the steamer Dora on the Seward-to-Nushagak run discontinued service on account of loss of mail contract. To the date of October 1 there had been no communication with Bristol Bay and the Aleutian Islands. At Seward I found orders for several hundred tons of supplies, which probably can not be delivered this year, with the result that many people may be forced to make their way as best they can to a base of supplies. Such relatively important places as Skagway, Petersburg, Wrangell, Katalla, Kodiak, and Seldovia will undoubtedly suffer until spring brings a resumption of the fishing industry. The larger towns are not without their grievances also. At the best steamer schedules are very irregular. A week or 10 days may elapse between the sailings of steamers. It thus becomes imperative that a great deal of correspondence should be answered by the same steamer on which it has arrived. Under the former system mail clerks had mail sorted and classified, and postmasters were thus enabled to have mail brought immediately from the ships to the post office, where it received almost instant distribution. Under the present method there is delay in transporting the express and freight to the post office and more delay in sorting. Should a steamer be sailing late in the evening or early in the morning, letters must be in the post office by 4 p. m. the day before. Even should a steamer arrive so as to allow mail distribution on the same day, it is often necessary for the sake of making answer to illegally intrust valuable letters to an unknown passenger or face another delay until the next steamer shall arrive.

On account of the great inconvenience entailed by the present system, feeling is very bitter, particularly when it is noted in the press that various and expensive airplane services are being inaugurated in the States between points which at the worst are only a few hours apart with frequent mail trains. It is earnestly hoped that there may be relief afforded to the mail situation and that at the very least mail clerks may be replaced on the Alaska run.

RELIEF OF DESTITUTION.

Funds for the relief of destitution are provided both by the Federal and Territorial Governments. Ten per cent of the Alaska fund is distributed among the judges of the four judicial divisions for the relief of the needy, the expenditures for the fiscal year 1918 being \$22,228.46. Territorial relief is afforded through biennial appropriations as follows: Pioneers' Home, \$60,000; dependent children, \$15,000; relief of destitution, \$15,000; allowances for aged pioneers, \$30,000.

Many cases of destitution do not come to the notice of the various boards controlling available funds. The Alaskan is proverbially charitable and his pocketbook is always open to those in distress. The fraternal orders are generous to the extreme.

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GOVERNMENT ASSISTANCE TO MINERS.

The experiment station of the Bureau of Mines, located at Fairbanks, is in full operation, filling a long-felt want with miners and prospectors. The station is thoroughly equipped to make mill and concentrating tests and qualitative determination of minerals. Advice as to process of mineral extraction is given and already mills are being constructed along designs furnished. An engineer of the Bureau of Mines is in charge, aided by a corps of qualified assistants. The work is most useful and constructive.

At Anchorage the Geological Survey has located an office with one of its most competent geologists in charge, who cooperates fully with those interested in the mineral-production problem of the district. The establishment of such an agency is a long step forward in governmental assistance to commercial development.

POLICE PROTECTION.

Alaska, outside of the incorporated towns, is without police protection except as afforded by the various wardens and the special employees for the suppression of the liquor traffic among the natives. The marshal's office is hemmed around with restrictions concerning expenditures for the detection of crime, which makes it almost impossible to prevent crime or to run down lawbreakers after a crime has been committed. A late ruling of the Attorney General, made at my request, allows more freedom to the marshals and district attorneys in the detection of crime, but even such allowance is not adequate. We have at present in the Territory wardens of various types, as follows:

Game wardens	11
Fur and fish wardens	12
Forest rangers	
Special employees	
_	

I propose that there be established a uniformed constabulary of 150 or 200 men, the officers of which shall be commissioned by the President and assigned to the entire policing of the Territory, this force to embrace all the wardens and officials enumerated above and to be charged with the enforcement of the law. A constabulary where established by the various States has proved an undoubted success. The force can also be used for relief of and search for lost persons, the enforcement of quarantines, and general patrol work. By the establishment of such a force an equal number of troops can be withdrawn from Alaska and some of the minor posts turned over to the constabulary for headquarters. The cost to the Government would be little more than for the maintenance of an equal number of troops and the results eminently more satisfactory. The Royal Northwest Mounted Police of our ally, Canada, has proved its worth time and time again, and we may well profit by the experience. The force should be absolutely removed from political influence, and both officers and men should be appointed only after a searching investigation of their moral, mental, and physical fitness.

GAME LAWS.

It is evident to anyone familiar with Alaska that the game laws are greatly in need of revision. The general idea of those ignorant of true conditions is that the average Alaskan slaughters game from the lust of wanton slaughter; that an attempt is being made to build up a huge cold-storage industry, and such speak learnedly of the "cold-storage trust," whatever that may be. As a matter of fact, the real Alaskan is very jealous of the game of the Territory; he realizes its great need for the development of the country, and no one can bring himself into greater disrepute in a community than by

the reckless killing of game.

The use of game both in the settlements and in the hills is necessary, and the prevention of the sale of game in the smaller towns and villages would result in hardship. It is not everyone who can take the time to go to the hills to kill his own meat, and yet meat is a necessary article of diet to all. There are very few big-game sportsmen in Alaska. Shooting is done not for the sake of hanging a trophy on the library wall, but for food; for food in a land where in many places the cost of beef is twice that charged in the States or is even impossible to obtain at any price. Game laws, and stringent ones, are necessary, with plenty of wardens to enforce their provisions, but the laws should be made by men familiar with Alaska. It is impossible to make one law to fit a Territory as large as Great Britain and Ireland, France, Belgium, Serbia, Montenegro, Italy, Roumania, and Portugal, combined, with Alsace and Lorraine returned to France. We should have laws for game zones with elasticity of administration. When game in one zone is endangered there, let that zone be closed to hunting until the supply is replenished. Different closed seasons should exist for different zones. It is hardly possible that the Congress of the United States can devote the time to make a proper study of the Alaskan game situation, and it should delegate the authority to make game laws to the Alaska Legislature, composed of men from every section of the Territory. Should Congress not be willing to take this step, they should at least provide for a committee to visit the game sections of Alaska and recommend laws. Such a committee should not be composed of sportsmen, but of a representative of the Department of Agriculture, a member to be appointed by the governor of Alaska or the Secretary of the Interior, and a third to be selected by the two already chosen.

The shortcomings of some of the laws are exemplified in the law for the killing of wild fowl. The open season for such birds is from September 1 to March 1. By September 15 practically all ducks and geese have left the interior waters for ice is forming on the lakes and ponds; the southward flight from the coast is well under way. The killing of wild fowl should be permitted to commence on

August 15.

The existence of game is seldom endangered by its proper use, but by its abuse. Unfortunately in any country there are always individuals or associations who will break laws unless such laws are properly enforced. It is by the breaking of laws that game has been driven from certain localities in Alaska. Canneries and mining companies have fed their employees in and out of season on deer, moose, sheep, and caribou; unscrupulous hunters have taken dogs to board during the summer months and have fed them choice pieces of meat; market hunters have killed big game and brought only the hind quarters to market. Like the laws for life and property, game laws must be enforced to be effective. To do this there must be more wardens with larger allowances for travel, but most of all we must have just laws, which the people themselves will hold in respect.

CONSOLIDATION OF DEPARTMENTAL AUTHORITY.

Under the caption "Red Tape in Alaska," Secretary Lane wrote a splendid expose of the interlocking of bureau authority. In a recent visit Secretary Redfield, in public speeches laughingly asked the question, "When is a brown bear a brown bear?" Some brown bear are under the jurisdiction of the Department of Agriculture, while others are in charge of the Department of Commerce. Brown bear, which belong to the black-bear family, may be killed at any time; the hide of the black parent may be exported, but the brown baby, in the eyes of the collector of customs, is a brown bear and is taboo.

Fur-bearing animals are under the jurisdiction of the Department of Commerce, while game animals are controlled by the Department

of Agriculture.

Alaska birch, valuable only for firewood in Alaska, but greatly in demand in furniture factories, may be exported if grown on forest reserves but if grown on public lands must remain to rot or to be burned. Lands in forest reserves must pass through both the Forestry Service and the Land Office before a settler has any assurance of title. The time-honored game of "passing the buck" confronts the investor or settler at every turn. Many become disgusted and turn away, to Alaska's loss. Alaska has been the orphan victim of innumerable fatal fads and fancies. As fast as practicable, the control of the resources of Alaska should be vested in the Territory, but in the meanwhile in the interest of efficiency, economy, and the general welfare of the people, let us do away with divided authority. One department should control all of the land above and below the surface, one department should control all the sea and its inhabitants, and one department should control all the land animals and birds. It would be most easy to enumerate case after case of confusion resulting from mixed authority and such confusion will continue to exist until authority has been consolidated.

RESERVATIONS AND WITHDRAWALS.

It has been the custom of former governors to rail at the number and extent of ill-advised reservations. In this respect I am no exception. Practically all of the vast reservations have been made without proper investigation and the result has been a lasting blow to the Territory. On account of reservation without investigation many men have lost their all and have even been driven to suicide. To my mind practically all of the reservations should be eliminated and the laws of the United States made to apply. Capital is wary of investing where title is covered by regulations instead of law and the pioneer is hard to satisfy with a lease. The huge Yukon Delta

Bird Reservation is a reservation on paper only. It is inhabited chiefly by Esquimo and Aleuts who do not know the meaning of a reservation and who would suffer hardship if the law were enforced. It is safe to say that none of the white inhabitants pay any attention to restrictions of the reservation. A reservation once established is hard to have eliminated; to do so is evidently taken as a reflection on those primarily responsible for its creation. For the sake of the future of Alaska, let there at least be no more reservations without a thorough investigation on the ground by practical men and not simply on the recommendation of men whose interest in the Territory is merely academic or sentimental.

AIRPLANE LUMBER.

Sitka spruce has been found to possess all the requirements of airplane construction in the highest degree. It is light, strong, tough, and compact. In all, 1,231,652 board feet, valued at \$87,350 have been exported. Undoubtedly a much better showing could have been made except for the difficulty in having inspection made in Alaska and in procuring transportation. Sitka spruce, while found in scattered stands all the way from Oregon to Kodiak, is at its best in Alaska, and is practically the only wood used in the manufacture of lumber.

PUBLIC BUILDINGS.

The Territory is greatly in need of a public building at the capital to house all the Federal and Territorial offices, which are at present widely scattered throughout Juneau. An insufficient appropriation is available, made at the time when no need for legislative chambers existed. An additional appropriation was asked for but failed of passage. During the war I do not urge the spending of any large sums of money or the diversion of needed labor from other forms of employment, but I do urge that the Supervising Architect of the Treasury Department be requested to prepare plans and estimates so that when the time is propitious, Congress may be asked to furnish the requisite additional funds with which to erect a building suited to the present and future needs of the Territory.

At present the office of the governor consists of a cheaply constructed house erected over 30 years ago as an Indian school. As an engineer, I condemn it absolutely as unsafe for human occupancy. It is my understanding that last winter its use had to be abandoned several times during the cold weather and for periods lasting as long as three weeks. To make the office habitable would require as great an outlay of money as to erect a new building better suited to the purpose. I think it will be neither possible nor safe to maintain the office in its present location for any length of time, as the first

winter gale may blow it down.

The executive mansion is a large, handsome, inadequately furnished house, the third floor of which has never been finished. Some of the furniture is badly in need of repair, but by decision of the Comptroller of the Treasury, funds appropriated for the upkeep of the mansion can not be used for the repair of Government furniture. It will, therefore, probably be necessary to purchase a certain amount of new furniture.

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The grounds surrounding the mansion had never received attention until an appropriation of \$2,500 made by the legislature for the purpose was utilized during the summer. The grounds are now inclosed by a neat fence, the terrace has been smoothed off and sodded, concrete walks have been put in, a new concrete driveway laid, and a flagstaff set up. The house has received a greatly needed repainting, for which purpose \$750 was appropriated at the last session of Congress.

TERRITORIAL BANKS.

At the close of the fiscal year covered by this report there were 16 Territorial banks and 3 national banks in the Territory, the same number as at the close of the previous year. While new banks were established at Fairbanks and Cordova during the year, there was one failure, a bank in Fairbanks having been closed in August, 1917, by the Territorial banking board. The bank was a small institution and, while the depositors will suffer some loss, there are no heavy individual losers. The Bank of Ruby, after slightly more than a year's existence, voluntarily liquidated its affairs, its backers feeling that the amount of business offered did not justify a longer continuance in business.

The Territorial banking board, composed of the governor, the secretary and the treasurer of the Territory, continued its supervision over Territorial banking institutions. All such were examined during the year and made reports of condition and published statements, under call, as required by law. Territorial banks are located at Ketchikan, Wrangell, Petersburg, Douglas, Juneau, Skagway, Cordova (2), Valdez, Seward, Anchorage (2), Nome (2), Iditarod, and Fairbanks. National banks are located at Juneau, Seward, and Fairbanks. The deposits in the various Territorial banks at call of May 8, 1918, aggregated \$5,974,728.82, as compared with \$5,742,790.30, under corresponding call of the year previous. The gain shown, though small, is none the less gratifying in view of the business depression existing in many parts of the Territory, due to prevailing war-time conditions. The combined capital of these banks is \$650,000, as compared with \$615,000 of the year previous. The total surplus and undivided profits amount to \$249,914.36, as compared with \$240,993.41 of the year previous.

LABOR CONDITIONS.

It is safe to say that every industry in the Territory is suffering from a shortage of labor. Mines, mills, fisheries, shops, and railroads are all working shorthanded. Peak production exerywhere has been rendered impossible. In many instances men have given up good wages with continuous employment, urged to other environments by the national restlessness. The Alaskan is naturally adventurous and excitement loving. The bustle of the war industries, the turmoil of the passing show, and the great desire to be of some direct service to the Government have sounded a call too loud to resist. Every south-bound steamer is loaded to capacity with passengers and those north-bound are pitifully empty. And withal the opportunity for the

laboring man in Alaska is as good as in any of the towns of the Pacific States, with their high rentals and catch-penny temptations. There have been a few labor disturbances; in May the salmon fishermen voiced their discontent over the prices fixed on fish. They claimed the price paid for salmon was too low, and the difference paid for fish caught with independent boat, gear, and fuel, and for fish caught with company boat, gear, and fuel not equitable. Hearings were held by both the food administrator and by the governor.

An amicable settlement of both questions was effected.

At Nome the production of gold was seriously interfered with by The Territorial legislature of 1917 passed an eight-hour law which provided for an eigh-hour day and no more, with no provision for overtime. When brought before the district court of the fourth judicial division, the judge decided the act to be unconstitutional. An attempt was made to have an appeal perfected on writ of error. By order of the Attorney General of the United States, the district attorney of the fourth judicial division was not permitted to enter the appeal and all district attorneys of the four judicial divisions instructed not to enter any suit under the act. Later the attorney general of the Territory essayed to appear for the United States as provided for by Territorial law but this attempt was also denied by the Department of Justice. The striking miners' union at Nome contended that the Attorney General had no authority to deny an appeal and remained on strike throughout the entire placer mining season, at the same time expressing a determination to maintain the law until definitely expunged from the statute books by a decision of the highest court. A conciliator of the Department of Labor sent to Nome for the purpose was unable to arrange an agreement between the gold mining operators and the strikers, the strikers holding out for an eight-hour day as explained and the principal operators holding firm to a longer day on a straight hourly basis without the time-and-a-half overtime feature, on the ground that placer mining with all the additional war-time costs would be unprofitable. An expression from various Alaskan unions showed considerable variance of opinion. The sentiment for a straight eighthour day and for an eight-hour day with time-and-a-half overtime, especially during war time, being about equally divided, as is the sentiment regarding the validity of the court's decision. It is to be regretted that an appeal was not allowed to be taken as, until the question is settled definitely for all time, there will be a recrudescence of labor disturbance. Under a term of the act regulating the hours of labor, the governor is given the power to suspend or modify the provisions of the law for the period of the war, when requested by the Secretary of the Interior or by the Council of National Defense. Acting under given authority the governor, my predecessor, under the dates of December 15, 1917, January 7, 1918, and April 5, 1918, suspended the workings of the law as applied to the fisheries for a period of one year from date of order and not longer unless the war shall not have been terminated within that time. Unless the legislature of the Territory will voluntarily amend the law or unless the Department of Justice will allow of an appeal, I look for continued labor unrest.

BONE-DRY ALASKA.

Prohibition in Alaska has been productive of most beneficial effects. I doubt if even those most opposed to prohibition would now be willing to return to the old regime. It is probably true that immediately before the shipment of liquor to Alaska was prohibited. large quantities of distilled and fermented liquor were imported for future illicit sale when the Territory should go dry. These "caches" have largely been either consumed or seized. "Bootlegging" is still in evidence but is becoming steadily less and less. The special employees for the suppression of liquor traffic among the natives since the advent of prohibition are now used in the suppression of all liquor traffic. I think the employment of agents for the suppression of the liquor traffic should be continued, owing to the fact that the distilling of "hootch" is not yet a lost art and undoubtedly there are a few illicit stills and breweries scattered about in secret places. On the whole the special agents have rendered effective service and have seized thousands of gallons of distilled liquor, wine, and beer.

It is evident that the necessity of preparing proper reports has not been sufficiently impressed upon these special employees, but from the fragmentary reports to hand it would seem that there have been the following number of arrests and convictions in the several divisions: First judicial division, 58 arrests and 50 convictions; second judicial division, 2 arrests and 2 convictions; third judicial division, 16 arrests and 14 convictions; fourth judicial division, 34 arrests and 17 convictions; a total of 110 arrests and 83 convictions.

TERRITORIAL BUREAU OF PUBLICITY.

The Territorial legislature of 1917 provided for a Territorial bureau of publicity, which has since been systematized and is now maintaining a central office at Juneau, the capital, from which literature advertising the Territory and its various resources is being largely distributed throughout the United States in particular and the world in general. The literature being distributed as the result of advertisements being placed in leading publications is descriptive of the resources of Alaska and includes everything that prospective homeseekers and investors may desire to learn. Many letters of inquiry for information and literature are received by this bureau and its maintenance and operation is doing much toward enlightening "outsiders" as to the resources and possibilities of Alaska.

In connection with the Territorial bureau of publicity a central labor bureau is being maintained and is doing much toward a general distribution of labor, as well as proving a convenience to those seek-

ing employment in the various industries of the Territory.

The act which authorized the bureau of publicity carried with it an appropriation amounting to \$15,000 to cover the two years which would intervene before another session of the Territorial legislature convened. Of this amount approximately \$3,000 was expended last year, principally in salaries and printing, but no system of advertising or distributing the printed matter was inaugurated until the present year, when an office was opened and its purposes generally made known. The result is that its force is now kept busy answering the many letters of inquiry received and sending out pamphlets containing the information sought.

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FOOD ADMINISTRATION.

The present organization consists of a staff comprising a Federal food administrator, an assistant Federal food administrator, executive secretary and educational director, director of home economics, director of religious and fraternal organizations, director of salmon division, director of fresh fish division, merchants' representative, representative of restaurants and hotels, library director, commercial traveling men's representative, statistician, and 110 divisional, district, and local food administrators, with headquarters in all of the principal towns and camps of the Territory. Adequate quarters are maintained in the Seward Building, Juneau, with a clerical force sufficient to dispatch the great volume of business incident to the food-conservation program during the war.

Among the important work done by the Alaska food administration has been the sending out of all rules and regulations, pamphlets, recipes, conducting all correspondence, and distributing literature and general and local news stories pertaining to the food-conservation program, as outlined by the United States Food Administration, together with numerous rules and regulations and food news which, from time to time, have been prepared by the Federal food adminis-

trator for Alaska.

The food administration of Alaska held many conferences this season with packers, cannery men, and fishermen relative to the price to be paid for Alaska salmon. Recommendations were made to the United States Food Administration and maximum prices to be paid were announced in May. A revision of these prices, based upon the point of delivery, was effected by the food administrator in July; also numerous questions arising out of the fishing industry of Alaska with reference to the prices fixed have been determined as the result of conferences with fishermen and cannery men. Questions of this character are continually arising and they are daily being adjusted. All of the salt-water fishermen in Alaska have been issued fishing licenses and a vast amount of correspondence carried on in this connection—the matter of proper persons to receive these licenses being an important question and entailing many investigations.

The matter of a reasonable profit for buyers and dealers in rough fish of Alaska was taken up with all concerned, and prices yielding

a fair profit to all were announced.

Sundry conferences with reference to the prices to be announced by the food administration for canned salmon in Alaska were held,

and recommendations forwarded to the food administration.

Alaska's food administration was partially instrumental in obtaining permission from the Government for foreign bottoms to haul fish between Alaska and mainland ports; also the matter of establish-

ing a more satisfactory steamship service was agitated.

Steamship companies plying to the westward agreed, upon a showing made by the food administration to reduce their rate on potatoes grown in the Matanuska section to points in southeastern and western Alaska, from \$12 a ton to \$4 a ton. This reduction has enabled Alaska's farmers to move many tons of potatoes at a price less than merchants have had to pay for this food commodity shipped in from the States.

Price-interpreting committees have been established and what are considered "reasonable prices" are published. These lists have proved valuable to consumers. The Juneau office has acted as a clearing house for all reports from licensees, has issued special permits for sugar and flour and investigated applications for licenses. The entire Territory has been reached frequently with urgent appeals for the conservation of essential foodstuffs and the results obtained have been most gratifying.

Food clubs have been established in many of the larger cities of the Territory. These organizatons have accomplished much in the way of holding meetings and devising plans for householders to conserve essential foods, sending out tested recipes, literature, etc.

Provisions have been made for supplying the Siberian coast trade with foodstuffs for the winter and special rules and regulations from time to time have been announced to cover various sections of the Territory, owing to inadequate transportation facilities and adverse climatic conditions.

The presence of two subchasers in Alaskan waters until the salmon pack is up has been continued until October 15, partly as the result of efforts by the Food Administration office.

A very appreciable stimulus to war gardens has been brought about through the food administration of Alaska and all over the Territory many successful war gardens were the result this season.

Alaska during the wheat-saving campaign established a wonderful record. Its per capita consumption was less than that asked by the food administration. The individual allowance had been fixed at 1½ pounds of wheat flour per person per week. A checking up of returns showed that Alaska's per capita consumption during the wheat-saving campaign did not reach 5 pounds per month.

As a result of willing cooperation, patriotism, and economy in the matter of saving certain meat products, such as pork, beef, etc., an excellent record was also made by Alaskans and is still being maintained. A vigorous campaign for the conservation of these essential foodstuffs has been continuously kept up and is now being conducted by our educational department.

In southeastern Alaska and in westward Alaska the sugar ration cards have been put into effect and are resulting in a large saving of sugar; and a special permit system controlling purchases by dealers, bakers, and public eating places and manufacturers is now in force, also conserving a large amount of sugar.

A number of miscellaneous matters, such as stimulating production, creating a demand for fish other than salmon, aiding in the preservation of the fish of the Territory, securing the cooperation of dealers other than those handling foodstuffs in carrying out the food program, etc., have been handled by the Alaska food administration.

The cooperation and willingness of Alaskans to comply with the regulations of the food administration as a whole has been most gratifying.

PUBLIC LAND.

During the year 16 townships, whole and fractional, of the Seward meridian, and 10 townships, whole and fractional, of the Fairbanks meridian, were surveyed.

There have been surveyed to date the following township surveys, whole and fractional, viz, Seward meridian 71, Fairbanks meridian

32, and Copper River meridian 13.

The survey should be further extended in the Susitna and Tanana Valleys. The necessity of surveying other sections is also apparent. There are approximately 100 square miles of agricultural land in the Chilkat River Valley, and there are at least 50 homesteaders, some of them having as much as 30 acres under cultivation. Their products are shipped to all parts of southeastern Alaska and even to Seattle. Wash.

There are also a number of settlers in the Eagle River Valley, where the advantages of settlement are equally as good as in the Chilkat Valley. On Kodiak Island it has been demonstrated that stock can be profitably raised, for there is an abundance of red top and other nutritious grasses. Similar conditions prevail on the islands of the Aleutian and Alexander Archipelagoes and in many of the valleys of the coast of southwestern and southeastern Alaska. There is some demand for surveys in the valley of the Kuskokwim.

The method of making surveys in Alaska is as follows: The department directs that a certain survey be made; the surveyor general is requested to prepare and issue instructions for its execution, and these are handed to the assistant supervisor of surveys to be handed by him to the United States surveyor he designates. Upon the completion of the survey the returns are filed with the surveyor general.

By an act (Public No. 180, 65th Cong., H. R. 8563) approved June 28, 1918, a settler who has used his homestead right in a State or other territory is no longer barred from making homestead entry on surveyed or unsurveyed land in Alaska. The same act provides that when an entryman has shown satisfactory evidence of compliance with the terms of the homestead law the surveyor general will issue instructions for the survey of the land entered, not later than the next succeeding surveying season, without expense to the entry-This act of course applies only to public lands. A settler within the confines of a forest reserve must first have his land clearlisted by the Forestry Service to the General Land Office, a process which is now carried through with reasonable dispatch. It is to be regretted in this connection that the national forests of Alaska can not be merged with the public lands, as there is no function of the Forestry Service being performed in Alaska in connection with the forests which can not be performed by the General Land Office without duplication of expense.

Much could be gained by the reorganization of the Land Service in Alaska to the end that the duties now performed by the four distinct branches of that service, operating in this Territory, may be handled by one officer. This bureau is now operating in the Territory through a surveyor general, an assistant supervisor of surveys, chief of field division, and three local offices, located at Juneau, Nome. and Fairbanks, respectively, each of which latter offices are presided over by a register and receiver. All of these branches are independent of one another and deal directly with the General Land Office in Washington, frequently about the same matter, without the other

being aware of what is taking place.

The consolidation of this work under one head would make an immediate saving in salaries, permit of the greater availability of

field and office force of these various branches, make possible a more economical utilization of office space with a consequent reduction of rent, the keeping of one set of records instead of four, etc. Aside, however, from any matter of financial consideration, the paramount benefit of the proposed reorganization is the efficiency that would be secured by responsible local control. The people in the Territory are far away from Washington, and their problems are so distinct from those in the States that they are entitled to a single officer with whom they can deal, who can speak authoritatively for the General Land Office, instead of the present divided authority, which makes practically every land claim the subject of consideration by four distinct branches of that bureau. When it is realized that 99 per cent of this Territory belongs to the Federal Government, and to a large extent is under the jurisdiction of the Land Department, the vital necessity of an efficient, centralized organization for that service becomes apparent.

NAVAL PATROL.

On account of seemingly well-substantiated rumors of I. W. W. and pro-German threats against the industries of Alaska, and particularly against the fish canneries, the Navy Department established a patrol in Alaskan waters, to last during the fishing and packing season. Four small ships, each carrying a naval intelligence officer and an officer of the Department of Justice, were detailed as follows: U. S. S. Patterson, formerly of the Coast and Geodetic Survey, to Bristol Bay; U. S. S. Explorer, also formerly of the Coast and Geodetic Survey, to Prince William Sound; submarine chaser 309 to southeastern Alaska, with headquarters at Juneau; submarine chaser 310 to southeastern Alaska, with headquarters at Ketchikan. These four patrol boats are rendering most excellent service. Every cannery has been visited, all I. W. W. and alleged pro-Germans have been interviewed, and several arrests of dangerous characters made. One German arrested had formulae and material for making high explosives. Through the assistance of the patral a number of slackers have been brought in. The presence of the patrol has without doubt kept in check proposed outbreaks of disloyalty and destruction of property, which would have injured the fisheries at a time when the United States is in need of their products, and has lent confidence and encouragement to operators in isolated localities. The patrol should be returned to Alaska about April 15 of next year.

Through the courtesy of Rear Admiral R. E. Coontz, commandant of the thirteenth naval district, plans have been drawn and estimates made for a ship for general duty in Alaska. There should be permanently stationed in Territorial waters, with headquarters at Juneau. such a ship, capable of performing patrol duty of all kinds. There is constant need of a vessel of this type, not only as a means of enforcing Federal and Territorial law, but also for performing rescue work.

The estimated cost is \$60,000.

PATRIOTIC ENDEAVOR.

Alaskans may well be proud of the showing made in drives for the various Liberty loans, War-Savings Stamps, and the American Red Cross. Little can be ascertained as to the amount subscribed to the

first Liberty loan, although it is known that a considerable amount was taken, Fairbanks subscribing over \$80,000 and Juneau over \$26,000. In the second loan \$1,059,100 was subscribed, and in the third loan, with a quota of \$687,828, subscriptions of \$1,743,050 were entered, or practically 253 per cent of the quota, thus leading all the States and Territories in proportion to the allotment, except Delaware, with its large war industries. On June 30, Alaska led all the States and Territories in the per capita purchase of War-Savings Stamps. Alaskans pin their faith to the great American Red Cross, although all worthy charities have received liberal subscriptions. In the membership drive in December, 1917, memberships were taken out to the extent of 94 per cent of the white population. In the second war fund campaign in May, 1918, with 18,090 subscribers the sum of \$147,398.64 was raised, with a number of distant places still to be heard from, thus again leading all the States and Territories in per capita subscriptions. Alaska can not be excelled by any State or Territory in per capita patriotism.

For the sale of the wool, from the White House sheep, donated by President Wilson, Alaska returned \$5,881.70 for 1½ pounds, once more leading the States and Territories, the nearest competitors being Nebraska, with \$5,000 and Porto Rico with \$4,000. If, in proportion to population, the United States should have as many men in military service as has Alaska, there would now be an Army of ap-

proximately 10,000,000 men.

INCORPORATED TOWNS.

There are 17 incorporated towns listed as such with the secretary of the Territory, but the town organization of Chena seems to have died of inanition, practically all of the inhabitants having moved away. Reports received from 13 of these towns show a total assessed valuation of \$14,777,646. The rate of taxation on assessed valuation for these towns ranged from 1 to 2 per cent, the average being 1.7 per cent.

Town.	Assessed valuation.	Rate of taxation.	Town.	Assessed valuation.	Rate of taxation.
Chena. Cordova. Douglas. Eagle. Fairbanks. Haines Iditarod Juneau Ketchikan.	\$1, 184, 545 481, 816 25, 874 2, 961, 134 (1) 3, 730, 768 1, 228, 825	Per cent. (1) 2 1.5 2 1.5 (1) (1) 1.6 1.75	Nome. Petersburg. Seward. Sitka. Skagway Tanana. Valdez. Wrangell.	1,721,800 164,910 625,727	Per cent. 2 1 1.8 1 1.5 (1) 2 2

Assessed valuation and rate of taxation, 1917.

WEATHER CONDITIONS.

The year ended June 30, 1918, was characterized by a general deficiency in temperature in all parts of Alaska in which records are kept, with the exception of the Aleutian Islands, where there was an

¹ No valuation made and no tax levied.

average daily excess of about 1°. The deficiency was greatest over the Yukon Valley and Seward Peninsula, where it averaged from 3.5° to over 5° per day. In the southeastern section only the months of November and January were decidedly warmer than usual, while in the interior valleys August, September, and January were the warm months.

The summer months, as usual, were pleasant and devoid of oppressive heat, the highest temperature officially registered being 88° in August in the Tanana Valley. While continued cold weather prevailed in the interior during the winter, and the lowest official reading was -67°, the Pacific coast districts enjoyed comparatively mild temperatures, the minimum readings for the year being but little below zero, though at a number of places they did not reach zero. This is in marked contrast to conditions in the central valleys of the States, where the lowest readings during the winter ranged from -10° to -40° .

Under the warm weather that prevailed in August and early September in the Yukon Valley, vegetation in that district made rapid growth and overcame the setback it had received earlier in the season. In the middle Yukon and Tanana Valleys the first freezing temperatures of the autumn occurred generally between September 6 and 14; in the Matanuska Valley on the 16th, while in the southeast and in parts of the Pacific coast vegetation was not materially damaged by

frosts until October 15 and 16.

As all of the spring months of 1918 averaged below normal in temperature, the early part of the season was backward, and the growth of crops was retarded even more than was the case in the spring of 1917. In the Tanana Valley it was not until about May 23 that field work was possible on southern slopes. The last freezing temperatures of the season occurred generally in the southeast and Matanuska Valley between May 23 and 26; in the lower Kuskokwim Valley on May 31; and in the Yukon Valley and Bering Sea region between the 10th and 30th of June.

One of the outstanding features of the weather of the year was the continued low temperatures that prevailed in the interior valleys and Seward Peninsula in November and December. While the absolute minimum readings recorded during this period did not reach previous low records by several degrees, the persistence day after day and week after week of temperatures that were much below normal made the winter in those districts one long to be remembered. The cold was most severe in the upper Yukon Valley, Fort Yukon having a mean for December of -48.4°. Still colder weather obtained in Yukon Territory, Dawson having a December mean of -51.3°.

The year was one of abundant precipitation in the southeast, especially during the latter half of 1917. October and November were noteworthy in that section for their frequent and heavy rains and snows. Previous high records for monthly totals were broken at several stations, among them Sitka with 20.73 inches in October, and Ketchikan with 53.85 inches and Jumbo Mine with 61.46 inches in These figures, of course, include rain and melted snow. November.

Heavy local rains occurred in the Tanana Valley in July and retarded construction work on the Government railroad in that region. while excessive rains over Kenai Peninsula on September 9 and 10 occasioned damage to property in Seward and vicinity aggregating

approximately \$100,000.

In the interior the last five months of 1917 were comparatively dry, with an unusual amount of clear weather. In some districts, particularly the Kuskokwim and lower Yukon Valleys and Seward Peninsula, practically no snow fell until January, and as a result transportation was carried on with the greatest difficulty by reason of the almost bare trails. There was an abundance of snowfall, however, in the late winter and early spring of 1918 in practically all parts of the Territory, but May and June had somewhat less than the normal amount of rainfall.

Navigation on inland waterways ceased in October. The Koyukuk was closed by ice on October 17, the Tanana between the 20th and 24th, the Kuskokwim between the 22d and 27th, and the Yukon from the 27th to the 31st. St. Michael Bay closed on October 31, and the roadstead at Nome on November 18. In the spring of 1918 the breakup began in the Tanana on May 10; in the Yukon at Eagle on the 11th, the date advancing to the 25th at Holy Cross; in the Koyukuk on the 27th; the lower Kuskokwim on the 19th; the Noatak on the 28th; and the lower Kobuk on June 2. The extreme cold weather of November and December with scarcely any snow resulted in the ice in the rivers freezing to unusual depths, which in turn caused the formation of unusually large gorges during the breakup. The highest water known in years was experienced at a number of places along the Yukon, Tanana, Koyukuk, and Kuskokwim. In the last-named valley the whole country in the vicinity of Akiak was inundated, the river rising to a stage of 25 feet above ordinary low water.

The ice in the Bering Sea remained much later than usual, and it was not until June 25 that ocean steamers were able to reach Nome. The ice discharge from the Nushagak and Kvichak Rivers blockaded Bristol Bay to an unusually late date. A number of vessels carrying supplies and labor to the canneries on the Bristol Bay coast were caught in the ice fields, one vessel being lost and others damaged. Three men lost their lives in making their way over the ice floes.

The following table gives the mean temperature at representative stations in the several sections of the Territory for each month of the year. Similar data for Minneapolis, Minn., are given by way of comparison.

Mean temperatures: July, 1917, to June, 1918.

Stations.	Section.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	
Eagle Rampart Fairbunks Fairbunks Nome Nome Nome Anthe Harbor Anthorage Anthorage Junan	Yukon Valley. Tanana Valley. Tanana Valley. Seward Peninsula. Kusko Win Valley. Aleutan Islanda. Con Inc. Southeast Southeast Minnesota		2. 2.2.2. 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	24.4.1. 14.4.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	8 4488238348 6 4486686600			1 011 011		41111894677888	84841985884 6000014568884	\$4444994444469 \$44444469	27.23.22.23.24.28 20.000400088	HEI OHI
							1							0,

SCHOOLS.

The public schools of Alaska are administered under both Federal and Territorial laws. The Federal law, known as the Nelson law, provides for schools outside of incorporated towns or incorporated school districts, and receives for their maintenance 25 per cent of the Alaska fund. The Territorial laws provide for schools in incorporated towns or districts, one-fourth of the cost of maintenance being borne by the town or district by taxation of real and personal property and three-fourths by the Territory. As an experiment in the Americanization of foreigners, the Territorial legislature of 1917 passed an act for citizenship night schools, carrying an appropriation of \$5,000, to be expended under the direction of the United States judges of the four judicial divisions. The experiment has proved a success. Not only are foreigners, many of whom are illiterate, being given elementary educational instruction, but are also being taught American ideals. A large number of foreigners, particularly Serbs, have returned to Europe from Alaska to enter the armies of their mother countries. They have told me that only lately have they understood the principles for which their countries are at war and that they now wish to fight to uphold the ideals, the meaning of which they have been taught to understand. I attribute this sentiment largely to the influence of the citizenship night schools.

The people of Alaska are intensely interested in their schools, the more so as many brought up on the outskirts of civilization were themselves not given the opportunity for educational advancement and wish to see this defect remedied in their children. On a whole, the schools are well organized with efficient and earnest instructors. In order that the scholarship of the public-school children might be tested and compared with that of average groups in the States, certain tests were given throughout the year. An examination of tabulated results shows that the scholarship of Alaskan children is well above the average. The vast majority of the teachers in Alaska have two qualifications which make for successful school work in this country where direct supervision of schools is necessarily limited these are professional training and experience. Two-thirds of the teachers of Alaska are normal school or college graduates; 88 per cent of the high-school teachers are college graduates who have in addition had advance study. The average teaching experience of Alaska teachers is seven and one-half years, exclusive of the school year for which the report is made. While statistics on the subject are not now available, I believe that no State in the Union can present a record of teachers so well qualified by professional training and experience as those of Alaska.

The great war has brought out the need for heretofore neglected patriotic instruction. In common with the rest of the Nation, we have perhaps been lax. We have not noted that we were slipping in patriotic endeavor. We have learned how insidious has been German propaganda in its attempt to destroy our American ideals. In Alaska, at least, never again shall our school children lack for instruction in patriotism and reverence for our flag. All pupils receive such instruction with the result that Alaska has an enviable record in the amount of war service rendered by her public-school system. The schools are enthusiastic in their support of all war

measures; the Junior Red Cross, Food Administration, War Savings, War Gardens. In three of the larger schools having an average daily attendance of 628, war securities to the amount of \$29,509.50 were purchased during the school year. Statistics covering all of the schools are not available.

Statistics of white schools outside of incorporated towns for the school year 1917-18.

· Location.	Number of teachers.	Pupils of school age.	Cost of mainte- nance.	Term (months).
Afognak	3	79	\$3,715.06	
Blackburn	l i	l ii	1,546.84	l .
Candle	i i	15	2,508.13	ة ا
Charcoal Point	Ĩ	33	1,379.42	ة ا
Chatanika		17	1,975.00	ة ا
Chichagof	i i i	l ī3	1,071,23	ا ا
Chitina	. 1	13	1,386.90	وً!
Council	1	14	2,484,38	و ا
Oralg.	1	22	1, 272, 81	l g
Deering	1	8	8,550.00	l è
Eagle River.	. 1	5	854, 25	1 6
Eliamar	1	17	1,584,75	
Finger Lake	. 1	1 7	2,917.50	1 6
Fortuna bedge	. 1	18	3,600.00	} 8
Fox	. 1	14	2,058,50	
Garden Island	. 1	15	1,970,67	i s
Hadley	. 1	8	1,091,32	
Hope	1	. 15	1, 232, 15	1 6
Kasaan		25	1,306.00	1 8
Katalla	1	19	1,526,97	1 6
Кепаі	.1 3	106	5,682.58	1 6
Kiana		18	2,581,23	9
Knik	. 1	8	1,370.05	1 9
Kodiak	. 4	93	5, 437, 50	
Latouche		36	1,745,14	! \$
Longwood	. 2	l 51	2,559.10	ا ا
Loring		21	1.047.50	1 7
Mendenhall		10	768.70	
McCarthy	.] 1	24	2,065,17	
Ninilchic	. 1	22	1,881.05	8
Nushagak		21	1,248,50	
Otter		22	2,534,09	1 6
Ouzinkie,	1 1	23	1,313,16	1 6
Perseverance	. 1	13	1.717.55	1 9
Rubv	. 1	20	3,740,38	1 9
Bt. Michael	1	18	2.618.97	
Sanak	. 1	16	1,963.93] (
Scow Bay	. 1	23	1, 102.08	1
Baldovia	. 1	39	1,658.85	
Sitka	. 3	59	8,792.45	1 6
Teller	. 1	19	1,765.70	[[
Tenakee	. 1	21	1,250.80	
Thane	. 2	15	2,893.53	
Tread well	.] 2	58	8,071.75	9
Unga	. 1	28	2,350.34	9
Wasilla	. 1	10	2,864.77	8
1				
Total	. 58	1, 162	100,046.84	I

For the year 1917-18 schools were maintained in 46 districts outside of incorporated towns and incorporated school districts. Eight new school districts were established during the year, three of which, however, did not open their sessions prior to the close of the school year. The 46 schools maintained during the year 1917-18 employed 58 teachers and had an enrollment of 1,180, as compared with 1,364 the previous year. The average number of pupils per school was 25.6, as compared with 34.1 the previous year. A total of \$100,046.84 was expended for maintenance, at an average cost of \$2,174,93 per school, as compared to \$1,993.50 for the previous year. The average cost per pupil was \$84.79, as compared with \$58.46 for the previous year.

SCHOOLS IN INCORPORATED TOWNS AND INCORPORATED DISTRICTS.

There are 15 schools in incorporated towns and 3 in incorporated school districts, supported in part by territorial appropriation. The averages for the 18 schools, as shown by the table of statistics, is as follows: Average number of teachers, 4.8, with average yearly salary of \$1,205.26 per teacher; average enrollment 120; average daily attendance, 94.2; average cost of maintenance, exclusive of teachers' salaries, \$3,777.82. The average cost per pupil was \$80.14, as compared with \$76.84 for the previous year.

Statistics of	f white schools	for the school	vear 1917-18.
Dimitorio C	I MILLE OF THE OF	JUI TIE BUILDUI	#601 1311-10.

	Num- ber of	Total	Average		Grade school	High school	E	xpenditure	s.
Location.	teach- ers.	enroll- ment.	daily at- tendance.	Term (mos.).	gradu- ates.		Salaries of teachers.	All other.	Total.
In incorporated towns.									
Cordova. Douglas. Eagle Fairbanks Haines. Iditarod. Juneau Ketchikan Nome Petersburg Seward Skagway Tanana Valdez Wrangell	4 9 1 8 2 1 14 9 6 4 4 5 1 5	108 206 11 205 46 8 348 254 127 91 103 122 17 101 102	71. 70 171. 40 8.81. 80 31. 00 8. 00 271. 28 194. 70 92. 90 71. 92 84. 00 96. 30 14. 00 79. 20	9 9 7 9 9 9 9 9 9 10 9	21 13 5 4 5	13 2 1	\$5, 220. 00 9, 005. 04 840. 00 15, 189. 75 1, 800. 00 16, 490. 00 10, 685. 00 8, 775. 00 3, 915. 00 4, 725. 00 1, 800. 00 1, 800. 00 3, 780. 00 92, 509. 79	\$7,669.59 4,172.65 408.75 5,640.10 518,28 380.78 7,744.24 4,683.47 4,429.97 2,922.75 2,416.40 564.22 4,278.32 4,278.32 51,704.45	\$12, 899. 59 13, 177. 69 1, 248. 20, 829. 85 2, 318. 28 1, 282. 24 15, 358. 47 13, 204. 97 6, 337. 75 7, 141. 45 8, 269. 00 2, 364. 22 9, 223. 35 5, 385. 85
		1,81/	1, 440. 81		98	29	92, 509. 79	51, 704.45	144, 214. 22
In incorporated school districts.									4
Anchorage	8 1 1	274 28 8	219.6 27.1 8.0	9 8 6	14 3 2		10, 332. 50 1, 415. 00 600. 00	12,054.82 3,994.09 247.48	22, 387. 32 5, 409. 09 847. 43
Total	10	310	254.7		19		12,347.50	16, 296. 34	28, 643. 84
Grand total	87	2, 157	1,695.51		112	29	104, 857. 49	68, 000. 79	172, 858. 08

CITIZENSHIP NIGHT SCHOOLS.

Night schools had been organized in two of the cities of Alaska prior to the 1917-18 school year. The passage of the citizenship night-school law as contained in chapter 33, 1917 session laws and the appropriation of \$5,000 for carrying out its provisions during the period ending March 31, 1919, however, gave a new impetus to this branch of educational activity. Six communities organized under its provisions and received Territorial appropriations amounting in all to \$2,913.31. In addition to undertaking work of the scope permitted under the law referred to, several communities conducted night schools, which offered a greater variety of subjects and which attracted a larger enrollment than would have been possible with the limited amount of money available from the Territory. In all, seven schools were organized. No reports are available from one, so the general statistics appearing below cover but five citizenship night schools and six general night schools.

Ocharl	Enrol	lment.	Average a	ttendance.	Sessions	Number	Expend-
School.	Men.	Women.	Men.	Women.	weekly.	weeks.	itures.
Anchorage Douglas Juneau Ketchikan Nenana Nome (no report)	100 6 20 27 46	50 19 11 17 3	50 5 8 11 39	25 11 5 10 3	5 2 3 2 5	24 24 20 15 16	\$1,246.90 375.00 378.66 397.00 480.00 400.00
Total	199	100	113	54			3, 277. 56

The difference between the total expenditure, \$3,277.56, and the amount received from the Territory, \$2,913.31, represents money collected from tuition fees, etc., for the support of these schools.

Different subjects offered: Reading, writing, spelling, arithmetic, English, United States history, United States civics, public speaking. Different nationalities represented: (24) American, Alaska native, Austrian, Bohemian, Bulgarian, Canadian, Danish, Dutch, Finnish, French, German, Greek, Irish, Italian, Japanese, Mexican, Montenegrin, Negro, Norwegian, Russian, Scotch, Serbian, Swedish, Swiss.

General night schools, including citizenship night schools.

	Enroll	lment.	Average a	ttendance.	Sessions	Number	Expen-
School.	Men.	Women.	Men.	Women.	weekly.	weeks.	ditures.
Anchorage	150 10 24	83 20 58 33	100	50 19 50 23	5 5 2	35 19 24 20	\$1,741.90 350.00 577.75 787.41
Imeau Ketchikan Nenana Nome (no report)	22 46	17 3	11 11 39	10 8	2 5	15 16	397.00 480.00 400.00
Total	252	214	169	155			4,734.06

Nationalities represented the same as above.

Subjects the same as above with the addition of French, Spanish, shorthand, typwriting, business English, and mineralogy.

ALASKA AGRICULTURAL COLLEGE AND SCHOOL OF MINES.

Chapter 34 of the session laws of 1917 provides for the acceptance of grants of land and money for the Alaska Agricultural College and School of Mines in accordance with the provision of the acts of Congress approved August 30, 1890, and March 4, 1915. Under chapter 62 of the session laws of 1917, providing for the establishment of such college, the sum of \$60,000 is appropriated for construction of buildings and the purchase of equipment. The building, on a site near Fairbanks, set aside for the purpose by Congress, is

now well under way. It is hardly possible that the college will be in operation before next year.

ALASKA TELEGRAPH.

The United States Signal Corps of the War Department maintains the Alaska military telegraph and cable system. There are 40 telegraph and cable stations and 11 radio stations. One station at Thompson Pass is closed during the summer and one at Kotlik is closed during the winter. The Navy Department operates 10 radio stations. There are 16 privately owned radio stations and at Noorvik a radio station is operated by the Bureau of Education with Esquimo operators. The Alaskan Engineering Commission has a telegraph line along the Government railroad from Seward to Talkeetna.

The service rendered by the War Department is invaluable and should be extended to take in many localities now almost entirely without communication except through slow and infrequent mails. The necessity of telegraph communication has been particularly noticeable in the execution of the selective draft. Additional service besides assisting in the development of the country would be valuable in performing rescue work and in apprehending the lawbreaker. There should be radio stations immediately at Point Hope, Point Barrow, and on the Kuskokwim and Koyukuk River. A suggestion perhaps worthy of consideration is that Esquimo might be enlisted in the service and trained for permanent duty at the Arctic stations.

COMMERCE.

The total commerce of Alaska with the United States for the fiscal year 1918 was \$131,767,788, as compared with \$121,265,947 for 1917, the increase in the export value of sea products being \$12,665,418 of furs \$494,085, of tin \$60,315, and of other unclassified exports \$1,-253,001. The decrease in the value of copper shipped was \$12,-880,555, gypsum \$42,550, stone and marble \$54,185. The export of domestic and foreign gold and silver from Alaska for 1918 amounted to \$15,134,523, as compared with \$19,801,974 for 1917, a decrease of \$4,667,451.

On imports from the United States the following increases are shown: Coal, \$116,674, lumber \$473,992, hardware and machinery \$7,567,163; provisions \$528.751. Decreases were shown in: Liquor,

\$387,716; all other unclassified items, \$2,456,307.

The decrease in the value of copper exported was largely due to curtailment of output due to strikes and decrease in the price of the metal. In gold and silver the decrease is due to the shutting down of many gold mines, owing either to labor shortage or increased costs of labor, material, and supplies.

Sea products not only increased in volume but in value. The increase in value of other imports or exports is due almost entirely to

increase in unit prices and not to volume of shipments.

Imports from foreign countries amounted to \$967,532, and exports to foreign countries to \$2,379,705, the total commerce of Alaska for the fiscal year 1918 reaching the sum of \$135,115,025.

There is a steadily increasing trade between Alaska and northern Siberia, which should be fostered. When a government in Siberia becomes firmly established I look for very close trade relations between Nome and that part of Siberia lying between the Gulf of

Anadir and Koliuchin Bav.

At present the commerce of Alaska can be considered satisfactory only in the fishing and copper mining industries. The fishing industry is seasonal and does not bring the amount of prosperity to the Territory to be imagined from the size of the figures. A large proportion of workers in the industry come and go with the season. To be of the greatest benefit to Alaska whenever possible cannery crews should be gathered among the native and white residents.

Domestic merchandise shipped from the United States to Alaska, 1913-1918.

		F	iscal year en	ded June 30-	-	
	1913	1914	1915	1916	1917	1918
Coal. Lumber. Hardware and machinery. Provisions. Liquors. All others.	1 \$212,523 738,717 4,296,305 5,316,089 721,593 8,894,320	1 \$295, 123 642, 611 5, 069, 453 5, 645, 715 645, 890 9, 630, 668	1 \$255, 810 712, 199 4, 849, 353 5, 314, 917 555, 144 9, 105, 186	1 \$244, 136 1,050, 311 6, 128, 826 6, 301, 043 659, 210 12, 118, 785	1 \$290,237 1,343,336 10,153,517 8,353,418 802,471 17,454,639	1 \$406,911 1,817,328 17,750,680 8,882,169 414,756 14,998,332
Total	20, 179, 547	21, 929, 460	20, 792, 609	26, 502, 311	38, 427, 618	44, 280, 075

¹ Besides the domestic coal above mentioned, foreign coal was imported to the value of \$279,788 in 1913, \$108,355 in 1914, \$141,480 in 1915, \$155,259 in 1916, \$280,687 in 1917, and \$273,510 in 1918.

Value of merchandise and precious metals shipped from Alaska to the United States, 1914–1918.

,		Fiscal y	ear ended J	ine 30	
	1914	1915	1916	1917	1918
Fish, salmon, canned and other Fish, all other. Furs. Gypsum. Stone, including marble. Oris, animal Ore, copper. Tin. Tungsten. All other.	982, 222 701, 511 100, 727 127, 220 210, 726 3, 876, 411	\$18, 375, 058 849, 796 679, 850 109, 995 116, 930 298, 427 5, 182, 004 71, 400	\$18, 856, 625 772, 806 572, 969 50, 500 58, 675 270, 503 26, 488, 288 79, 471	\$22, 229, 724 1, 603, 938 711, 550 62, 000 110, 101 297, 606 33, 008, 190 54, 147 54, 870 1, 912, 989	\$43, 357, 348 2, 701, 724 1, 205, 635 19, 480 55, 916 737, 704 20, 217, 635 114, 463 19, 550 3, 165, 900
Total	21, 480, 066	27, 039, 470	48, 965, 477	60, 135, 205	71, 595, 414
Domestic gold and silver: Gold	12, 291, 672 148, 446	15, 348, 666 263, 606	16, 195, 635 759, 962	15, 409, 529 683, 824	12, 416, 660 711, 755
Total	12, 440, 118	15, 612, 272	16, 955, 597	16,093,353	13, 128, 415
Foreign gold and silver: Gold		4, 423, 622	2, 686, 303 11, 279	3, 676, 385 82, 236	2,006,362 108
Total	3, 495, 034	4, 423, 622	2, 697, 582	3, 708, 621	2,006,470
Grand total	37, 415, 218	47,075,364	68, 618, 656	79, 937, 179	86, 730, 299

Total commerce of Alaska for the fiscal year ended June 30, 1918.

Shipments of—	
Domestic merchandise from the United States to Alaska	\$44, 280, 075
Domestic merchandise from Alaska to the United States	71, 151, 090
Foreign merchandise from Alaska to the United States	443, 324
Domestic gold and silver from the United States to Alaska	758, 420
Domestic gold and silver from Alaska to the United States	13, 128, 415
Foreign gold and silver from Alaska to the United States	2, 006, 464
Total	131, 767, 788
Merchandise from foreign ports to Alaska	967, 532
Merchandise from Alaska to foreign ports	
Total	3, 347, 237
Grand total	135, 115, 025

TERRITORIAL COUNCIL OF NATIONAL DEFENSE.

By executive order the Territorial Council of National Defense was organized by my predecessor on November 28, 1917, consisting of 32 local organizations, the Juneau branch of the council being the advisory body of all the locals. Representative men in all walks of life were chosen and to them given the duty of aligning the Territory back

of the Nation for the successful prosecution of the war.

The council has made special endeavor in the matter of keeping alive the spirit of Americanism; they have been untiring in their efforts to make successful the various Liberty loans, war savings stamps, and charitable drives. They have encouraged the citizen soldier by leading in appropriate farewell exercises and in the giving of instructions concerning their legal rights; they have recognized to sorrowing families the appreciation of the Territory for those who have fallen on the field of honor. In every endeavor the hand of the council is evident—encouragement of productive industry and in the unification of the Territory and of the Nation.

OFFICE OF THE GOVERNOR.

Repeated attention has been directed to the insufficient provision for the pay of the governor's secretary. The position demands that the incumbent must not only be a stenographer and skilled accountant but must also be a man of executive force and tact. Other than a secretary no assistance is provided for the governor by Federal appropriation to handle the immense amount of correspondence and work which comes to the office. In addition to the duties imposed by the Government, the governor is an active member of the board of public health of the Territory, the Territorial banking board, the Territorial board of education, the board of trustees of the Pioneer's Home, the Territorial board of road commissioners, and as superintendent of the board for relief of destitution he has entire charge of the poor of the Territory except those receiving assistance from the indigent fund disbursed by the United States judges.

The Territorial legislature has come to the rescue by appropriating \$6,240 for the two-year period ending March 31, 1919, for clerk hire in the office of the governor in connection with Territorial laws, and \$1,200 to supplement the Federal appropriation for janitor and messenger service. With the costs of fuel, stationery, printing, and other maintenance charges increasing day by day, the Federal appropriation for contingent expenses of the governor's office has been cut from \$7,500 in 1917 to \$6,000 in 1918, this in the face of the increased expenses due to war conditions. Unless the Territorial legislature comes once more to the rescue at its next session the efficiency of the office will be seriously impaired.

APPENDIXES.

APPENDIX A.

STATEMENT OF LIBRARY AND MUSEUM FUND.

Receipts and disbursements of the Alaska Historical Library and Museum fund from July 1, 1917, to June 30, 1918.

RECEIPTS.

Date.	Received from—	Title or business.	Åmoun
1917.	•		
ly 1	Balance on hand A. E. Gurr W. H. Winston Jas. S. Truitt		\$11,505.
7	A. E. Gurt	Notary public	10.
3	W. H. Winston	Member of bar	10.
Į	Jas. S. Truitt	do	10.
Į	Austin Fields	do	10.
12	A. H. Ziegler	Notary public	10.
16	A. E. Bain	do	10.
16	MTS N J ESTATITION	l . 00	1 10
16	F R Cowden	do	1 10
23	C Winn	l do	10
2	Joseph P. McMurtrey Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of	Member of bar	10.
31	Receipts from foreign and domestic cornerations and the		13.
91	lemanes of certificates with soal offixed for the month of		10.
	Test = 1017		1
2 2	July, 1917. L. R. Gillette. Joseph C. Dehn.	Madam muhlia	۱
	L. R. Gillette	Modery public	10.
3	Joseph C. Dehn	do	10.
	C. M. Frasier	do	10.
12	A. M. Kilgore	đo	10.
14	H. R. Calfee	do	
17	R. Y. St. George	do	10.
20	C. A. Boerner Wm. B. Stout	do	10.
2	Wm B Stont	do	10.
2	Wm. G. Thomas.	do	10.
â	J. D. Wynne	do	10.
31	Descripts from foreign and demostle economistant and the		1 10.
3.	Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of		4.
	122/18/11GE OF GELTHICE COR MICH SERI BILLY BOT 101 CHE THOUGH OF		1
	August, 1917.		l
ot. 4	C. E. Wright-Perrin	Notary public	10.
	C. E. Wright-Perrin Jos. P. Foliman	[do	10.
	H. S. Chester	do	10.
11	A I. Van Orsdal	do	10.
20	Justus H. Elden. Leopold David.	do	l 10.
2	Leopold David	do	10.
2	III Kinnegan	l do	l 10
2	W T Lucas	do	l îŏ.
30	Descints from foreign and domestic corrections and the		16
34	W. T. Lucas. Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of		10.
	September, 1917.		1
L 1		Matama mublic	٠,
	C. Harry w oouward	Notary public	10.
3	R. L. DeGraff	40	10.
		<u>4</u> 0	10.
11	Edward F. Medley	do	10.
14	John B. Marshall	do	10.
19	I Frad R Barnes	I do	1 10
2	A B Cole	do	10.
2	F. T. Merritt C. P. Snyder	Member of bar	1 10.
2	C. P. Snyder	Notary public	10
3	Isaac Hamburgar	do	10
3	Receipts from foreign and domestic cornerations and the		3
0.	Isaac Hamburger. Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of		"
	October, 1917.		1
v. 1	V A Deine	Notary public	10.
		Moreta bring	10.
5		uo	10.
10	G. A. Adams	do	10.
10		do	
2	R. G. Datson.	do 	10
3) Wm. H. Whittlesev	do	10.
3	I Receipts from foreign and domestic cornerations and the		1
_	issuance of certificates with seal affixed for the month of November, 1917.		1
	,	I	6.

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APPENDIX A-Continued.

Receipts and disbursements of the Alaska Historical Isbrary and Museum fund from July 1, 1917, to June 30, 1918—Continued.

RECEIPTS-Continued.

Date.	Received from-	Title or business.	Amount.
1917.			
Dec. 3	John N. Conna	Notary public	\$10.00
3	W. S. Bonnifield	do	10.00
3	John N. Conns. W. S. Bonnifield Lyle Elliott Noble. J. Lindley Green	do	10.00 10.00
10	J. Lindley Green	do	. 10.00
15	Simon Hellenthal	.j .a o	10.00
17	Waldo E. Burford	Member of bar	10.00
27 31	Ferdinand Martin	Notary public	10.00
31	Ferdinand Martin Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of December, 1917.		4.00
1918.			ļ
Jan. 2	W. D. English	Notary public	. 10.00
5	Phil. Abrahams]do	10.00 10.00
7	L. E. Weith	do	. 10.00
` 57 77 77	C. C. Taggart	go	10.00
7	Agnes Randie	ao	10.00
9	T & Flagmore	do	10.00
11	H R La Favra	do	10.00 10.00
19	Arobia W Shiele	do	10.00
23	H E Biggs	.do	10.00
31	Receipts from foreign and domestic cornerations and the		29.00
0.	W. D. English Phil Abrahams. L. E. Weith C. C. Tagart Agnes Randle H. E. St. George T. S. Elsemore H. B. Le Fevre Archie W. Shiels H. E. Biggs Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of January, 1918. Mrs. G. F. Paine. G. E. Austin Peter E. Nielsen John Metzger E. Coke Hill H. H. Post		
Feb. 1	Mrs. G. F. Paine.	Notary public	10.00
5	G. E. Austin	do	10.00
5	Peter E. Nielsen	do	10.00
21 21	John Metzger.	do	10.00
21	E. Coke Hill	do	10.00
27 28	H. H. Post	do	10.00
28	Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of		88.00
No	February, 1918. John T. Reed.	M-4	
Mar. 6	John D. Deegle	Notary public	10.00 10.00
10	Dobest F Russe	do	10.00
25 25 26	Geo I. Stenley	do	10.00
26	L V Rav	do	10.00
27	Cord P Wood	40	10.00 10.00
31	Receipts from foreign and domestic corporations and the		116.00
	John R. Beegie Robert E. Burns Geo. L. Stanley. L. V. Ray. Cyril P. Wood. Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of March, 1918.		
Apr. 1	J. R. Fitzgerald	Notary public.	10.00
1	F. H. Bailev	do	10.00
2	J. R. Fitzgerald F. H. Balley Accrued interest on certificate of deposit for \$9,000, one year at 4 per cent, ending Apr. 1, 1918. H. A. Bauer. H. A. Berry Summer S. Smith Thomas G. Carter John A. Clark B. O. Graham James Frawley Edith B. Dimmick J. L. Reed.		360.00
10	H A Rener	Notary public	10.00
ii	H. A. Berry	do	10.00
1 5	Sumner S. Smith.	.do	10.00
23	Thomas G. Carter	do	10.00
23 24 24 25 26 27 80	John A. Clark	do	10.00
24	B. O. Graham	do	10.00 10.00
25	James Frawley	do	10.00
26	Edith B. Dimmick	do	10.00
27	J. L. Reed	do	10.00
80	Receipts from foreign and domestic corporations and the		51.60
	J. L. Reed. Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of April. 1918.		1
W 0	April, 1918.	N-4	٠
May 2	A = three C. Thompson	Motary public	10.00 10.00
9	C. L. Cadwallader Arthur G. Thompson Addison F. Stowe George Roll	do	10.00
18	George Roll	do	10.00
27		do	10.00
27 81	Receipts from foreign and domestic corporations and the issuance of certificates with seal affixed for the month of		12.00
	issuance of certificates with seal affixed for the month of		
	May, 1918.		1
June 1	Andrew Grosvold	Notary public	10.00
7	Martin Lickwald.	do	10.00
7	B. O. Graham	Member of bar Notary publicdo	10.00
10	B. O. Graham. J. C. Murphy	Notary public	10.00
11 30	A. W. Fox	do	10.00 20.00
30	Receipts from foreign and domestic corporations and the		20.00
	issuance of certificates with the seal affixed for the month		1
	of June, 1918.		
	Total		13, 167. 01
	A UWAL		14, 191.01
	•		•

APPENDIX A—Continued.

Receipts and disbursements of the Alaska Historical Library and Museum fund from July 1, 1917, to June 30, 1918—Continued.

DISBURSEMENTS.

Date.	Received from—	Title or business.	Amount.
1917.			
July 21	Daily Alaska Dispatch	Voucher No. 34	\$8.00
Aug. 1	The All-Alaska Review. E. J. White, proprietor Douglas Island News. The Empire Printing Co	Voucher No. 35	2.50
1	E. J. White, proprietor Douglas Island News	Voucher No. 36	3.00
1	The Empire Printing Co	Voucher No. 37 Voucher No. 38	10.00 9.00
i	Petersburg Weekly Report.	Voucher No. 39	9.00 2.50
i	The Wrangell Sentinel.	Voucher No. 40	1, 25
î	The Daily Alaskan.	Voucher No. 41	9.00
ī	C. C. Nichols	Voucher No. 42	25.00
2	C. C. Nichols The Seward Gateway Publishing Co	Voucher No. 43	13, 00
2	The Valdez Daily Prospector	Voucher No. 44	12.00
2 2 7	Sheldon Jackson School Print Shop	Voucher No. 45	. 50
7	The Beaver Club of Oregon	Voucher No. 46	3,00
25	The Chitina Leader	Voucher No. 47	3, 00
25	The Citizens' Publishing Co	Voucher No. 48	12.00
25	Fairbanks Daily News Miner	Voucher No. 49	10.00
31	C. C. Nichols Nome Publishing Co.	Voucher No. 50	
ept. 12	Nome Publishing Co	Voucher No. 51	24.00
12	Record-Citizen	Voucher No. 52	12.00
27	Nome Industrial Worker	Voucher No. 53	20.00
27	R. L. Polk & Co. (Inc.)	Voucher No. 54	10.00
29	C. C. Nichols	Voucher No. 55	25.00
Oct. 11	Pacific Fisherman	Voucher No. 1	3.00
31	C. C. Nichols.	Voucher No. 2	25.0 0
Nov. 9	Alaska Bindery	Voucher No. 3 Voucher No. 4	55.00
19	Ed. Baudin. Wells Fargo & Co. Express.	Voucher No. 5	1. 50 1. 70
Dec. 1	C. C. Nichols	Voucher No. 6	25.00
10	J. K. Gill Co.	Voucher No. 7	6.00
10	A. F. McKnight	Voucher No. 8	76.00
31	C. C. Nichols	Voucher No. 9	25.00
1918.			
Jan. 24	Juneau Transfer Co	Voucher No. 10	12.50
31	C. C. Nichols	Voucher No. 11	25.00
Feb. 14	Washington University State Historical Society	Voucher No. 12	2.00
28	C. C. Nichols	Voucher No. 13 Voucher No. 14	25.00
Mar. 15	do	Voucher No. 14	12.50
Apr. 1	Jas. L. McCloskey	Voucher No. 15	12.50
4	Juneau Transfer Co	Voucher No. 16 Voucher No. 17	5.50 3.00
10 24	Alaska Bindery	Voucher No. 18	121. 25
30	Jas. L. McCloskey.	Voucher No. 19.	25.00
June 1	do	Voucher No. 20	25.00 25.00
10	do	Voucher No. 21	8.33
21	do. Gunnison & Robertson, account United States Fidelity & Guaranty Co.	Voucher No. 22	33. 16
26	Ruebe & Romeike	Voucher No. 23	30.00
29	J. V. Enette	Voucher No. 24	16. 67
-			015 20
-	Lage arror Apr. 17 1917 (radenosited)		
_	Less error Apr. 17, 1917 (redeposited)		1.50
			1.50 813.86
	Less error Apr. 17, 1917 (redeposited)		815. 36 1. 50 813. 86 12, 353. 15
-			1.50 813.86

APPENDIX B.

Official Directory.

TERRITORIAL GOVERNMENT.

Governor.—Thomas Riggs, jr., Juneau.
Secretary to the governor.—G. Fenton Cramer, Juneau.
Ex-officio secretary of Alaska.—Charles E. Davidson, Juneau.
Delegate to Congress.—Charles A. Sulzer.

UNITED STATES SURVEYOR GENERAL'S OFFICE.

Juneau.—Charles E. Davidson, surveyor general; Martin George, chief clerk; Edward P. Kendall, chief draftsman; Charles E. Naghel, financial and general clerk; Frank A. Brittain, stenographer and typewriter; Robert G. Green, mineral dmaftsman; Byron L. Fitch and Ernest Taschek, draftsmen.

United States deputy surveyors.—Asa C. Baldwin, United States Army; H. P.

M. Birkinbine, Haines; H. P. Crowther, Juneau; William A. Hesse, Cordova; Charles S. Hubbell, Seattle, Wash.; H. C. Ingram, Fairbanks; Frank A. Metcalf, Juneau; William Muncaster, Seattle, Wash.; R. D. Pickett, Mammoth, Cal.; Duke E. Stubbs, Aniak; F. J. Wettrick, V. H. Wilhelm, F. W. Williamson,

Juneau; H. H. Waller, United States Army.

United States mineral surveyors.—Asa C. Baldwin, United States Army; Office States mineral surveyors.—Asa C. Baldwin, United States Army; H. P. M. Birkinbine, Haines; Arthur G. Blake, Hayward, Cal.; H. P. Crowther, Juneau; William W. Elmer, Portland, Oreg.; George O. Hallock, Kent, Wash.; William A. Hesse, Cordova; Charles S. Hubbell, Seattle, Wash.; Henry C. Ingram, Fairbanks; Frank A. Metcalf, Juneau; O. Adrian Nelson, Chitina; R. D. Pickett, Mammoth, Cal.; I. McK. Reed, Nome; L. D. Ryus, Ketchikan; D. B. Skinner, Bellevue, Wash.; B. D. Stewart, Sulzer; Duke E. Stubbs, Aniak; H. H. Waller, United States Army; R. F. Whitham, Olympia, Wash.; F. J. Wettrick, V. H. Wilhalm, F. W. Williamson, Luneau. Wettrick, V. H. Wilhelm, F. W. Williamson, Juneau.

OFFICE OF THE SECRETARY OF ALASKA.

Juneau.—Charles E. Davidson, ex-officio secretary; A. W. Fox, chief clerk.

UNITED STATES CUSTOMS OFFICIALS.

Juneau.-J. F. Pugh, collector; C. D. Garfield, special deputy collector; M. S. Whittier, deputy collector and inspector; George M. Simpkins, deputy collector and inspector.

Ketchikan.-Milson S. Dobbs, deputy collector in charge; George W. Woodruff, deputy collector and inspector; John L. Abrams, deputy collector and inspector.

Wrangell.-F. E. Bronson, deputy collector in charge.

Skagway.—Fred J. Vandewall, deputy collector in charge; G. G. Miller, deputy collector and inspector.

Nome.—R. W. J. Reed, deputy collector in charge.

St. Michael.—Edwin R. Stivers, deputy collector in charge.

Cordova.—Elmer O. Norgren, deputy collector in charge. Unalaska.-N. E. Bolshanin, deputy collector in charge.

Eagle.-J. J. Hillard, deputy collector in charge.

Fortymile.-John Elden, deputy collector in charge. Petersburg.-John C. Allen, deputy collector in charge.

Naket.—Andrew P. Kashevaroff, deputy collector and inspector.

UNITED STATES COURTS.

Division No. 1.—Judge, Robert W. Jennings, Juneau; court stenographer, L. A. Green, Juneau; clerk of court. J. W. Bell, Juneau; court librarian, J. F. Hurley, Juneau; deputy clerks, John T Reed, Lafe E. Spray, C. Z. Denny, Juneau; William T. Mahoney, Ketchikan; Edward A. Rasmuson, Skagway. United States Marshal, J. M. Tanner, Juneau; chief deputy, W. W. Casey, jr., Juneau; deputy United States Marshals, Harry F. Morton, Juneau; C. H. Passells, Juneau; George L. Johnson, Douglas; N. O. Hardy, Skagway; J. W. Combs, Haines; J. J. Egan, Tenakee; Henry L. Bahrt, Sitka; Noah Howell, Petersburg; H. J. Wallace, Wrangell; C. D. Calhoun, Craig; W. B. Sharpe, Ketchikan, United States of Corney Lemos A. Smiton, Tuncan, Control of Con Retersburg; H. J. Wallace, Wrangell; C. D. Calnoth, Craig; W. B. Sharpe, Ketchikan. United States attorney, James A. Smiser, Juneau; assistant United States attorneys, J. J. Reagan, Juneau; Steve Ragan, Ketchikan; clerk to United States attorney, Ina S. Liebhardt, Juneau. United States commissioners, Newark L. Burton, Juneau; Jack Henson, Douglas; William T. Mahoney, Ketchikan; Edward A. Rasmunson, Skagway; J. J. Kennedy, Haines; John C. Allen, Petersburg; C. E. Weber, Wrangell; Charles A. Fox, Craig; U. S. Rush, Marson, P. W. De Armond, Sitka; Welton Rames von Chatham; A. H. Kenth, Kasaan; R. W. De Armond, Sitka; Walter Ramsayer, Chatham; A. H. Keuttner, Killisnoo; I. J. Macomber. Chichagof; E. M. Axelson, Yakutat.

Division No. 2.—Judge, William A. Holzheimer, Nome; clerk of court, Thomas McGann, Nome; deputy clerks, W. C. McGuire, A. C. Dilg, Earl C. Modini, Nome. United States marshal, Emmet R. Jordan, Nome; chief deputy, Adrian B. Miller, Nome; deputy United States marshals, L. D. Lewis, Elmer Reed, Harry Pigeon, Catherine A. Anpher, Nome; T. W. Coady, Fortuna Ledge; John Little, St. Michael; M. R. Luther, Teller; Eric Johnson, Council; Robert H. Humber, Candle; Bernard J. O'Rellly, Kiana. United States Attorney, Gubrand J. Lomen, Nome. United States commissioners, Hugh O'Neill, Nome; D. W. Cram, Barrow; Rodney S. Dimmick, Candle; John D. Flanigan, Council; George L. Stanley, Kiana; John W. Fuller, Fortuna Ledge; Charles J. Koen, St. Michael; W. J. Worcester, Taylor; William N. Marx, Teller; Henry Sethmann, Haycock.

Division No. 8.—Judge, Fred M. Brown, Valdez; court stenographer, Isaac Hamburger, Valdez; clerk of court, Arthur Lang, Valdez; deputy clerks, Charles H. Wilcox, William M. Meals, John A. Roseen, Valdez; Leopold David, Anchorage; W. H. Whittlesey, Seward; Thomas S. Scott, Cordova. United States marshal, F. R. Brenneman, Valdez; chief deputy, J. H. D. Bouse, Valdez; deputy United States marshals, A. C. Dowling, H. C. De Line, S. O. Casler, Valdez; C. W. Mossman, Anchorage; William L. Fursman, Cordova; W. J. Feaster, Chitina; Isaac Evans, Seward; Karl Armstrong, Kodiak; Charles McCallum, Unga; Paul Buckley, Unalaska; M. H. Healey, Dillingham; James M. Millsap, McCarthy; A. F. Hoffman, Matanuska; V. L. Sedgwick, Naknek; C. W. Harrington, Seldovia; N. E. Ohlsson, Girdwood; H. R. Brown, Talkeetna; H. M. Conrad, Latouche. United States attorney, William A. Munley, Valdez; assistant United States attorneys, Hilliard G. Bennett, Valdez; J. C. Murphey, Anchorage. United States commissioners, N. E. Bolshanin, Unalaska; L. H. French, Dillingham; William O'Connor, Chitina; C. P. Smith, McCarthy; Edward F. Medley, Cordova; Fred Phillips, Illiama; Charles C. Naughton, Katalla; Leopold David, Anchorage; H. H. Beck, Kodiak; William Nellsen, Naknek; William H. Whittlesey, Seward; William D. Coppernoll, Talkeetna; F. C. Driffield, Unga; George J. Love, Valdez; Anthony McGettigan, Chisana. Commissioners with powers of justice of peace only, Royden D. Chase, Anchorage; Sid. S. Bettman, Knik; Herbert M. Pratt, Kenai; William A. Dickey, Latouche; Ralph A. Anderson, Seldovia; Alexander H. Proctor, St. George Island; F. G. Dodge, U. S. Coast Guard cutter Unalga.

Division No. 4.—Judge, Charles E. Bunnell, Fairbanks; court stenographer, E. T. Wolcott, Fairbanks; clerk of court, J. E. Clark, Fairbanks; deputy clerks, Frank B. Hall, L. F. Protzman, Grace Fisher, Fairbanks; Asa M. Kilgore, Iditarod; Thomas J. De Vane, Ruby; assistant clerk, Ella Knudsen, Fairbanks. United States marshal, Lewis T. Erwin, Fairbanks; chief deputy, J. H. Miller, Fairbanks; deputy United States marshals, M. O. Carlson, H. R. Tull, Helen Criswell, John C. Wood, Peter McMullen, Fairbanks; G. G. Geraghty, Flat; C. L. Vawter, Tanana; John B. Powers, Eagle; Thomas H. Long, Ruby; E. D. Heppenstall, Wiseman; J. L. Anders, Hot Springs; C. T. Spencer, Circle; P. R. McGuire, Fort Yukon; M. F. Miller, Brooks; James Hagan, Nenana. United States attorney, R. F. Roth, Fairbanks; assistant United States attorney, Harry E. Pratt, Fairbanks; E. Coke Hill, Ruby. Clerk to United States attorney, Emma Haggren, Fairbanks. United States commissioners, Howard J. Atwell, Livengood; John Barker, Beaver City; John J. Donovan, Franklin; Joseph C. Dehn, Tanana; Thomas J. De Vane, Ruby; Wilbur F. Green, Tacotna; A. J. Griffin, Richardson; Reed W. Heilig, Fairbanks; Preston J. Hilliard, Eagle; A. M. Kilgore, Flat; George W. Ledger, Rampart; Vance R. McDonald, Long City; Robert S. McDonald, Nenana; J. C. Moody, Ophir; Frank A. Reynolds, Circle; Duke E. Stubbs, Aniak; Joseph C. Van Orsdel, Glacier; Samuel R. Weiss, Chatanika; Frank C. White, Fort Yukon; Thomas B. Wright, Wiseman; William O. Young, Hot Springs.

UNITED STATES LAND OFFICE.

Division No. 1.—C. B. Walker, register, Juneau; Frank A. Boyle, receiver, Juneau.

Division No. 2.—G. A. Adams, ex officio register, Nome; E. R. Jordan, ex officio receiver, Nome.

Division No. 3.-Included in division No. 1.

Division No. 4.—J. E. Clark, ex officio register, Fairbanks; Lewis T. Erwin, ex officio receiver, Fairbanks.

Field division (headquarters, Juneau).—Chief, C. R. Arundell; special agents, Mason B. Leming, J. L. Backstrom, H. K. Carlisle, F. K. Andrews; Mineral inspector, Frank Farmer; clerk and stenographer, Walter B. Heisel.

DEPARTMENT OF AGRICULTURE.

C. C. Georgeson, D. Sc., agronomist in charge, Sitka; H. E. Pratt, B. Sc., assistant in charge, Kodiak; S. H. Loyd, B. Sc., animal husbandman, Kodiak; M. D. Snodgrass, B. Sc., in charge, Fairbanks; W. T. White, B. Sc., assistant, Fairbanks; G. W. Gasser, B. Sc., assistant in charge, Rampart; Frederick E. Rader, B. Sc., assistant in charge, Matanuska.

EDUCATION.

White schools. (See Territorial boards, etc.)

Native schools.—P. P. Claxton, Commissioner of Education, Washington, D. C.; W. T. Lopp, superintendent of education of natives of Alaska, Seattle, Wash.; H. C. Sinclair, supply agent, Seattle, Wash.; C. C. Bestor, special disbursing agent, Seattle, Wash.; C. W. Hawkesworth, superintendent southeastern district, Juneau; A. H. Miller, superintendent southwestern district, Anchorage; F. L. Forbes, superintendent, upper Yukon district, Tanana; W. H. Johnson, superintendent western district, St. Michael; W. C. Shields, superintendent northwestern district, Nome. Physicians, L. G. French. Nushagak; H. C. Randle, Nulato; F. W. Lamb, Akiak; D. S. Newman, Nome; James P. Mooney, Juneau; W. H. Chase, Cordova; G. E. Howe, Ellamar (contract); C. Weich, Canile (contract); W. Ramsey, Council (contract).

INTERNAL REVENUE.

Charles C. John, field deputy, Juneau; George Hutchinson, stamp deputy, Fairbanks.

IMMIGRATION SERVICE.

William G. Strench, inspector in charge, Ketchikan; Charles W. Durkee, jr., immigrant inspector, Skagway.

BUREAU OF FISHERIES.

Ward T. Bower, agent at large; E. M. Ball, H. J. Christoffers, Arnold C. Reynolds, assistant agents at large; E. P. Walker, inspector, Wrangell. Pribilof Islands, H. C. Fassett, A. H. Proctor, agents and caretakers; Henry D. Aller, G. Dallas Hanna, storekeepers; W. Byrd Hunter, Charles E. Johnson, physicians; Mr. and Mrs. George Haley, Charles E. Crompton, schoolteachers. Wardens at large, C. F. Townsent, Christian L. Larson, Fred H. Gray, Shirley A. Baker, Lemuel G. Wingard. Fred A. Martin, special fur warden, Anchorage. Edwin Wentworth, superintendent fisheries station, Afognak; Charles B. Grater, superintendent fisheries station, Yes Bay; Hans Blord, master fisheries steamer Roosevelt; Edwin Hofstad, master fisheries steamer Ospray.

STEAMBOAT INSPECTION SERVICE.

George H. Whitney, local inspector of hulls, Juneau; Peter G. Peltret, local inspector of boilers, Juneau; George E. Mann, clerk to local inspectors, Juneau; Harry W. Ravens, local inspector of hulls, St. Michael; Jerome A. Desio, clerk to local inspectors, St. Michael.

LIGHTHOUSE SERVICE, SIXTEENTH DISTRICT.

Walter C. Dibrell, inspector, Ketchikan; Ralph R. Tinkham, superintendent; Walter G. Will, assistant superintendent; Albert B. Edmonds, chief clerk; William K. Spaulding, Ethel H. Rudge, clerks; Rolf Foosness, depot keeper; William J. Wright, mechanician; Michael Harris, foreman, Ketchikan.



BOARD OF ALASKA ROAD COMMISSIONERS.

W. H. Waugh, major, Engineers, National Army, president and engineer officer; John Zug, captain, Engineer Reserve Corps, assistant engineer officer; Sidney L. Carter, first lieutenant, Engineer Reserve Corps, disbursing officer, Juneau.

ALASKAN ENGINEERING COMMISSION.

Anchorage.—Burton H. Barndollar, examiner of accounts; Dr. J. B. Beeson, chief surgeon; Andrew Christensen, manager, land and industrial department; John T. Cunningham, trainmaster; William C. Edes, chairman; I. H. Fleischman, chief clerk; Walter J. H. Fogelstrom, bridge engineer; William Gerig, engineer in charge, Anchorage division and consulting engineer; Grover C. Hammond, special disbursing agent; F. A. Hansen, engineer maintenance of way; Edward T. Lindner, land office assistant; W. R. Manning, acting general storekeeper; Fred T. Mumma, superintendent, T. and T. department; DeWitt B. Van Derlip, chief accountant; James G. Watts, town-site manager.

Nenana.—Frederick D. Browne, engineer in charge Fairbanks division; W. H. Grigg, town-site manager; Charles H. Hall, special disbursing agent; A. J. Hewitt, chief accountant; George E. Markus, storekeeper; Dr. David H. More, acting chief surgeon; W. L. Packer, superintendent of construction; Walter B. Reaburn, superintendent of transportation.

Seward.—Robert J. Weir, engineer in charge, Seward division; Edgar R. Tarwater, special disbursing agent; Thomas M. Harr, chief accountant.

FOREST SERVICE.

Tongass National Forest.—W. G. Weigle, forest supervisor; B. F. Heintzleman, deputy forest supervisor; R. R. Kan Smith, forest examiner; J. M. Wyckoff, clerk and special fiscal agent; Marguerite B. Todd, clerk; C. T. Gardner, forest ranger, Ketchikan. James Allen, ranger, Petersburg; George H. Peterson, ranger, Sitka; J. L. MacKechnie, ranger, Craig; George H. Canfield, assistant engineer, United States Geological Survey, in charge of stream gauging work in cooperation with the Forest Service, Juneau.

Chugach National Forest.—W. G. Weigle, forest supervisor, Ketchikan; T. M. Hunt, forest supervisor; R. J. Settles, clerk, Seward; W. J. McDonald,

ranger, Cordova: Grover C. Haneman, ranger, Anchorage,

GAME WARDENS.

Division No. 1.-J. C. Lund, Juneau; Patrick Hamilton, Ketchikan; Charlie , Klontech, Sitka.

Division No. 2.—Martin O. Solberg, Nome.

Division No. 3 .- J. A. Baughman, Seward; Peter S. Ericksen, McCarthy; F. A. Martin, Anchorage.

Division No. 4.—L. F. Protzman, Fairbanks; S. R. L. Foster, Nenana; Robert E. Steel, Eagle.

SPECIAL EMPLOYEES FOR SUPPRESSING LIQUOR TRAFFIC AMONG NATIVES OF ALASKA.

J. F. McDonald, Juneau; Thomas P. Killeen, Nome; Joseph A. Bourke, Valdez; John A. Moe, Ruby.

OFFICIALS AND BOARDS AUTHORIZED BY TERRITORIAL LEGISLATURE.

TERRITORIAL TREASURY.

Walstein G. Smith, treasurer; Juneau; Charles E. Harland, clerk, Juneau.

PUBLIC HEALTH.

Gov. Thomas Riggs, jr., ex officio commissioner of health, Juneau; assistant health commissioners, L. P. Dawes, division No. 1, Juneau; W. D'Arcy Chace,

division No. 2, Nome; W. W. Council, division No. 3, Cordova; J. A. Sutherland, division No. 3. Fairbanks.

VITAL STATISTICS.

Charles E. Davidson, ex officio register, Juneau; Plooma Crowther, clerk, Juneau.

TERRITORIAL BANKING BOARD.

Gov. Thomas Riggs, jr., president, Juneau; Walstein G. Smith, secretary, Juneau; Charles E. Davidson, Juneau.

BOARD OF MEDICAL EXAMINERS.

B. L. Myers, president, Ketchikan; L. O. Sloan, Juneau; J. H. Mustard, Nome; Curtis Welch, Council; J. M. Sloane, Seward; J. H. Romig, Seward; Aline B. Bradley, Fairbanks; H. M. McCallum, Fairbanks.

BOARD OF DENTAL EXAMINERS.

W. E. Zuber, president, Ketchikan; E. H. Kaser, Juneau; L. W. Fromm, Nome; O. J. Keating, Seward; Robert R. Myers, Fairbanks.

BOARD OF PHARMACY.

W. B. Kirk, president, Juneau; William H. Caswell, Valdez; D. H. Cristoe, Douglas; Jos. G. McDougall, Nome; William Ramsey, Council; Edward V. Boyle, Cordova; Frank M. Dunham, Ralph T. Kubon, Fairbanks.

TERRITORIAL BOARD OF EDUCATION.

Gov. Thomas Riggs, jr., president, Juneau; J. R. Heckman, Ketchikan; John Sundback, Nome; O. P. Hubbard, Valdez; O. P. Gaustad, Fairbanks.

TERRITORIAL COMMISSIONER OF EDUCATION.

L. D. Henderson Juneau; clerk to Commissioner, Leonore Chapin, Juneau.

TERRITORIAL ATTORNEY GENERAL

George B. Grigsby, Juneau; clerk to attorney general, Ruth Griffin, Juneau.

BOARDS OF CHILDREN'S GUARDIANS.

Division No. 1, Juneau.—Robert W. Jennings, United States district judge; J. M. Tanner, United States marshal; Mrs. Joseph W. Thatcher.

Division No. 2, Nome.—Wm. A. Holzheimer, United States district judge; E.

R. Jordan, United States marshal; Mrs. Thomas Mulligan.

Division No. 3, Valdez.—Fred M. Brown, United States district judge; F. R. Brenneman, United States marshal (position of woman member vacant at present).

Division No. 4, Fairbanks.—Charles E. Bunnell, United States district judge;

L. T. Erwin, United States marshal; Mrs. Luther C. Hess.

BOARD OF TRUSTEES, ALASKA PIONEERS' HOME.

Gov. Thomas Riggs, jr., chairman, Juneau; Allen Shattuck, secretary, Juneau; W. W. Casey, treasurer. Juneau; Arthur G. Shoup, superintendent of home, Sitka.

BOARD FOR RELIEF OF DESTITUTION.

Gov. Thomas Riggs, jr., superintendent, Juneau. Advisory members: J. W. Bell, clerk of United States district court, Juneau; Emmet R. Jordan, United States marshal, Nome; F. R. Brenneman, United States marshal, Valdez; L. T. Erwin, United States marshal, Fairbanks.

TERRITORIAL BOARD OF ROAD COMMISSIONERS.

Gov. Thomas Riggs, jr., chairman; Charles E. Davidson, secretary; Walstein G. Smith, member, Juneau.

DIVISIONAL BOARDS OF ROAD COMMISSIONERS.

Division No. 1.—Ed. C. Hurlbutt, commissioner, Juneau; assistants, H. T. Tripp, T. E. P. Keegan, Juneau.

Division No. 2.—John A. Wilson, commissioner, Nome; assistants, Daniel A. Jones, Nome, E. H. Pfaffle, Council.

Division No. 3.—James E. Wilson, commissioner, Valdez; assistants, George H. Merrifield, Valdez; A. A. Shonbeck, Anchorage.

Division No. 4.—H. H. Ross, commissioner, Fairbanks; assistants, George A. Chapin, Iditarod; James E. Barrack, Fairbanks.

TERRITORIAL BOARD OF FISH COMMISSIONERS.

B. M. Behrends, Juneau; John R. Beegle, Ketchikan; W. H. Spaulding, Hawk Inlet.

BOARD OF REGENTS, AGRICULTURAL COLLEGE AND SCHOOL OF MINES.

Division No. 1.-L. S. Keller, Skagway.

Division No. 3.-L. F. Shaw, Anchorage.

Division No. 4.—Mrs. L. C. Hess, A. R. Heilig, H. Claude Kelly, H. B. Parkin, A. C. Nordale, Paul J. Rickert, Fairbanks.

TERRITORIAL BUREAU OF PUBLICITY.

E. J. White, chief of bureau; Joseph A. Baxter, assistant chief.

TERRITORIAL MINE INSPECTOR.

(Vacant.)

APPENDIX C.

IMPORTS AND EXPORTS.

Annual Report of the Collector of Customs for the Calendar Year, 1917.

United States Customs Service.

OFFICE OF THE COLLECTOR.

Port of Juneau, Alaska, January 31, 1918.

The progress and development of Alaska as indicated herein, though substantial, is not so great as anticipated at the beginning of the year. Under normal conditions, this report has been considered a fair basis for determining such results. The unusual situation due to the world conflict, and more particularly since the active entry of our country therein, has so affected affairs generally as to unbalance production and commerce.

Separating the products of the Territory into two general classes, land and sea, it will be noted that last year the value of land products exceeded those of the sea by nearly \$13,000,000, while in the present year the sea products were nearly \$3,000,000 more than those of the land. Abnormally increased price of copper brought this about in the previous and the same cause applied to fish products in the present year, reversed the position of the classes.

The retarded exploitation of the natural resources, the depleted placer deposits, and the large withdrawal of labor from our industries to more lucrative employment in the States have been the means of decreasing the volume of production.

The price of merchandise shipped to the Territory has been greatly enhanced compared with the volume. Thus the \$21,000.000 gain in commerce value of this year over last has been due to price rather than volume.

In the following table, the items: Imports and exports of foreign gold and silver, and a considerable portion of the exports foreign, are in transit commerce and do not enter into the actual trade.

Commerce of Alaska.

	Calendar years.						
	1911	1912	1913	1914	1915	1916	1917
IMPORTS.			 				
Merchandise from the United States	\$15, 1 60 , 149	\$21,992,7 61	\$21,689,69 0	\$21,610, 860	\$23, 293, 16 8	\$30, 834, 798	\$30, 888, 16 8
Merchandise from foreign ports	519, 221	925,034	751,173	662, 994	500, 519	1,544,182	1, 196, 195
foreign ports	3, 520, 170	3,840,546	4, 320, 985	3, 576, 090	4, 223, 620	2, 936, 018	2,397,237
Total imports	19, 208, 540	26, 758, 341	26, 761, 848	25, 849, 944	28,017,307	35, 314, 993	44,431,600
EXPORTS.	 						
Merchandise to the United States	19, 318, 859	24, 793, 886	22, 252, 942	25, 427, 878	34, 245, 272	62, 507, 811	76,651 ,96 8
and silver to foreign	1, 174, 393	1,636,780	1,248,878	1,047,746	1,225,120	1,873,013	3,003,500
Domestic gold and silver to the United States	14, 699, 694	16,081,705	12, 959, 266	14,729,905	16,090,411	16, 332, 117	14,939,440
Foreign gold and silver to the United States	3, 353, 361	3,704,173	4,306,591	3, 450, 400	3, 296, 012	3, 900, 500	2,008,84
Total exports	38, 546, 307	46, 166, 544	40,767,677	44, 655, 924	54, 856, 815	84, 622, 450	96,003,862
Grand total	57,754,847	72, 924, 885	67, 529, 525	70, 506, 868	82, 874, 122	119, 937, 443	141, 125, 462

The value of shipments received by the Government railroad this year is \$2,797,819 and its outward merchandise is \$33,004. Include these items in the foregoing table, and the total commerce will be \$143,956,285.

Owing to the near conformity of the judicial with the geographical divisions of the Territory and considering that the former are more definitely described and fixed in the public mind, it has been deemed advisable to subdivide the shipments from the United States accordingly. This has been done in the tables for the present as well as the previous years.

New features in the following table are tonnage quantities of several items (the pound units of antimony, copper, lead, and tin indicate the metal contents), dried and pickled fish, canned herring and clams, shrimp, turnips, and reindeer meat.

Important gains will be noted in many products, largely due to conditions heretofore stated. Losses in copper production were occasioned by labor troubles in the principal district, and in gold by the greatly curtailed output due to insufficient labor and other causes. Returns of fars from the Pribiloff Islands and mail shipments of the same not having been received, account for the discrepancy in that item.

In order to arrive at the full value of fish products the following exports, foreign, should be added to the amounts shown in the table:

	Quantity.	Value.
Salmon, fresh Haibut, fresh Cod, fresh Herring, salt Salmon, canned	Pounds, 338, 009 3, 201, 181 224, 605 713, 868 5, 596, 244	\$21, 280 304, 734 7, 653 49, 781 733, 777

This sum taken with the total of domestic exports makes the grand total value of shipments from Alaska \$92,702,692, an increase over last year of nearly \$18,000,000.

Value of merchandise and gold and silver shipped from Alaska to United States.

			Γ	
Articles.	1914		1915	
	Quantity.	Value.	Quantity.	Value.
Antimony ore	102, 942		1,021 2,283,304 108,576	\$189,345
Copper ore	25, 261, 888	\$3, 365, 342	08,300,100	12, 354, 163
Fish:	10 913 355	580 314	9 384 382	496, 653
Fish: pounds Fresh. do. Dried or cured. do. Pickled. barrels Salmon, canned. pounds Salmon, all other do. Herring, canned. do. Clams, canned. do. All other fish. .	7,064,359 15,784 198,691,795	170, 411 145, 778 17, 906, 215 750, 512	5, 609, 574 10, 179 210, 110, 632	151, 472 99, 876 17, 892, 377 604, 271
Shrimpdodo				
All other fish		23, 418		89,363
Total fish		10 585 848		19, 334, 012
Fish fertilizerstons.	1,444	51, 463	699	20, 895
Fish and whale oilgallons	1,015,195	310,344	356, 897	300, 332 411, 401
Gypsumtons	23,015	107,347	16,450	411, 401 65, 800
Lead ore			1,663 558,991	31,032
Lead bullion pounds			13,548	642
Marble.		119, 796		105, 180
Fish fertilizers tons Fish and whale oil gallons Fur and fur skins Gypsum tons Lead ore (tons pounds Lead bullion pounds Marble (tons Tin ore (tons Turnips pounds Turnips do do Reindeer meat do All other Alaska merchandise Gold and silver United States goods returned Foreign goods	270, 800	71,400	184 413, 710	79, 471
Tungsten oredodo				
Reindeer meatdodo		<u>-</u>	13, 485	2,040
Gold and silver		14, 729, 905	20, 200	87,373 16,090,411
United States goods returned		1, 172, 684 387, 959		1,201,01
Foreign goods		387, 959		220, 445
Total		40, 545, 737		50, 554, 518
		1916		
Autolog	19	16	19	17
Articles.	Quantity.	Value.	Quantity.	Value.
Antimony ore Stons Copper ore pounds. pounds	Quantity. 1,408 1,729,177 182,638 135,289,219			Value.
Antimony ore Stons Copper ore pounds. pounds	Quantity. 1,408 1,729,177 182,638 135,289,219	Value. \$178, 215 35, 534, 089	Quantity. 78 70,862 199,014 100,740,856	Value. \$8,973 27,243,510
Antimony ore Stons Copper ore pounds. pounds	Quantity. 1,408 1,729,177 182,638 135,289,219	Value. \$178, 215	Quantity. 78 70,862 199,014	Value. \$8, 977 27, 243, 510 1, 112, 602 292, 802 296, 621 11, 206, 224 243, 546 261, 244
Antimony ore Stons	Quantity. 1,408 1,729,177 182,638 135,289,219	Value. \$178, 215 35, 534, 089 612, 707 185, 549 229, 562 21, 567, 123 987, 696 123, 088 33, 808 3, 378	Quantity. 78 70, 862 199, 014 100, 740, 856 12, 747, 266 6, 524, 525 227, 964 285, 462, 307 16, 641, 213 1, 963, 580 1, 997, 019 83, 930	
Antimony ore pounds Copper ore tons Fish: Fresh pounds Dried or cured do Pickied barrels Salmon, canned pounds Salmon, all other do Herring, canned do Shrimp do All other fish Total fish Fish fertilizers tons Fish and whale oil gallons: Fur and fur skins Gymann tons tons	Quantity. 1, 408 1, 729, 177 182, 638 135, 289, 219 10, 355, 820 5, 208, 562 18, 849 227, 764, 309 12, 972, 281 880, 549 281, 232 68, 340	Value. \$178, 215 35, 534, 089 612, 707 185, 649 229, 562 21, 567, 123 987, 695 123, 006 33, 376 61, 635	Quantity. 78 70, 862 199, 014 100, 740, 856 12, 747, 286 6, 624, 525 245, 452, 307 16, 641, 213 1, 663, 580 1, 997, 019 83, 930 1, 1, 196 1, 105, 167	Value. \$8, 973 27, 243, 510 1, 112, 602 295, 621 41, 478, 514 261, 244 261, 244 3, 232 60, 254 45, 049, 066 37, 752 705, 673 379, 589
Antimony ore Spounds (tons. Spounds	Quantity. 1, 408 1, 729, 177 182, 638 133, 289, 219 10, 355, 820 5, 208, 562 18, 849 227, 764, 309 12, 972, 281 880, 549 281, 232 68, 340	Value. \$178, 215 35, 534, 089 612, 707 185, 649 229, 562 21, 667, 123 987, 696 33, 808 3, 376 61, 635 23, 804, 621 29, 161 249, 470 919, 986 55, 100 78, 277	Quantity. 78 70, 862 199, 014 100, 740, 856 12, 747, 286 6, 624, 525 245, 452, 307 16, 641, 213 1, 663, 580 1, 997, 019 83, 930 1, 1, 196 1, 105, 167	Value. \$8, 977 27, 243, 510 1, 112, 605 292, 90 295, 821 1, 296, 224 1, 296, 224 261, 244 8, 233 60, 264 45, 049, 066 37, 755 706, 674 379, 586 45, 800 121, 946
Antimony ore Stons Pounds Stons Pounds Stons Pounds Stons Pounds Pish: Fresh Pounds Pish: Fresh Pounds Pish: Balmon, canned Pounds Pounds Piskled Piskled Pounds Piskled Pisk	Quantity. 1, 408 1, 729, 177 182, 638 1335, 289, 219 10, 335, 820 6, 206, 562 18, 849 227, 764, 309 12, 972, 281, 282 880, 549 281, 232 68, 340	Value. \$178, 215 35, 534, 089 612, 707 185, 649 229, 562 21, 567, 123 987, 966 123, 088 3, 378 61, 635 23, 804, 621 29, 161 249, 470 919, 998 55, 100	Quantity. 78 70, 882 199, 014 100, 740, 856 12, 747, 286 6, 624, 525 285, 452, 307 16, 641, 213 1, 663, 580 1, 997, 019 83, 930 1, 106, 167 10, 950 2, 886 1, 595, 683 122, 339	Value. \$8, 977 27, 243, 516 1, 112, 602 292, 800 296, 224 14, 478, 514 1, 296, 224 8, 232 60, 264 45, 049, 066 37, 755, 706, 677 379, 584 43, 900
Antimony ore Stons. Copper ore. Fish: Fresh Dried or cured do Pickled barrels Salmon, canned pounds Balmon, all other do Clams, canned do Shrimp do All other fish Total fish Fish fertilizers tons Fish and whale oil gallons' Lead ore gounds Lead ore fors. Lead ore fors. Tin ore fors.	Quantity. 1, 408 1, 729, 177 182, 638 1335, 289, 219 10, 355, 820 6, 206, 562 18, 849 237, 764, 309 12, 972, 281, 282 68, 340	Value. \$178, 215 35, 534, 089 612, 707 185, 649 229, 562 21, 567, 123 987, 695 123, 066 33, 376 61, 635 23, 804, 621 29, 161 249, 470 919, 998 55, 100 78, 277 1, 485 85, 623	Quantity. 78 70, 862 199, 014 100, 740, 856 12, 747, 286 6, 624, 525 285, 452, 307 16, 641, 213 1, 663, 580 1, 997, 019 83, 930 1, 015, 167 1, 050 2, 856 1, 595, 683 1, 595, 683	Value. \$8, 977 27, 243, 510 1, 112, 602 292, 800 294, 546, 621 1, 296, 522 243, 546 261, 244 8, 232 60, 266 45, 049, 066 377, 755 706, 677 379, 588 43, 800 121, 946 72, 400
Antimony ore pounds Copper ore tons. Pish: Fresh. Dried or cured do Pickied barrels Salmon, canned barrels Salmon, all other do Herring, canned do Herring, canned do Shrimp do All other fish Total fish Fish fertilizers tons Fish and whale oil gallons Fur and fur skins Cypsum tons Lead ore ftons Lead ore ftons Lead bullion pounds Marble ftons Turnips pounds Turnips pounds Turnips do All other Market do All other fish do Consumption of tons Formand fur skins ftons Lead ore ftons Loud ore ftons Loud ore ftons Turnips pounds Turnips do All other Alaska merchandise	Quantity. 1, 408 1, 729, 177 182, 638 135, 289, 219 10, 355, 820 5, 208, 562 18, 849 227, 764, 309 12, 972, 281 880, 549 281, 232 68, 340	Value. \$178, 215 35, 534, 089 612, 707 185, 649 229, 562 221, 567, 123 987, 696 33, 306 3, 376 61, 635 23, 804, 621 29, 161 249, 470 919, 998 55, 100 78, 277 1, 485 85, 623	Quantity. 78 70, 882 199, 014 100, 740, 856 12, 747, 286 6, 624, 525 285, 452, 307 16, 641, 213 1, 663, 580 1, 997, 019 83, 930 1, 106, 167 10, 950 2, 886 1, 595, 683 122, 339	Value. \$8, 977 27, 243, 514 1, 112, 602 292, 800 292, 800 294, 478, 51- 1, 296, 22- 243, 544 8, 23: 60, 26- 45, 049, 066 37, 755, 706, 67- 379, 584 43, 900 114, 46: 4, 922 19, 566 6, 63: 64, 077
Antimony ore Stons. Copper ore Spounds Fish: Presh Dounds Presh Dounds Presh Dounds Presh Dounds Presh Dounds Balmon, canned Dounds Salmon, all other do Clams, canned do Clams, canned do Clams, canned do Shirmp do Total fish Fish fertilizers tons Fish and whale oil gallons' Fur and fur skins Gypsum tons Lead ore Dounds Lead bullion Dounds Tin ore Stons.	Quantity. 1, 408 1, 729, 177 182, 638 135, 289, 219 10, 355, 820 5, 208, 562 18, 849 227, 764, 309 12, 972, 281 880, 549 281, 232 68, 340	Value. \$178, 215 35, 534, 089 612, 707 185, 649 229, 562 21, 567, 123 987, 695 123, 086 3, 378 61, 635 23, 804, 621 29, 161 249, 470 919, 998 55, 100 78, 277 1, 485 85, 623 54, 147 1, 958 54, 870	Quantity. 78 70, 862 199, 014 100, 740, 856 112, 747, 286 6, 524, 525 285, 452, 307 16, 641, 213 1, 683, 580 1, 997, 019 83, 930 1, 196 1, 015, 167 10, 950 2, 886 1, 596, 683 122, 339 219, 894 249, 787 20, 160	Value. \$8, 973 27, 243, 510 1, 112, 602 292, 802 295, 621 11, 296, 224 243, 544 261, 244 8, 232 60, 254

The following table of passenger movement for six years indicates the travel, by regularly established routes, to and from the district and the Yukon territory. Tourists, and cannery employees bound for remote places, are not included.

The Eagle and Dawson movement shows the local frontier travel, which must not be considered with the general account, as the greater number of these passengers arrived at or departed from Ketchikan or St. Michael and have been accounted for in their returns.

	1912	1913	1914	1915	1916	1917
Arrivals from the United States and British Co-						
lumbia: Southeastern, southern, and western Alaska . Nome, St. Michael, and Bering Sea	20,645 2,067	21,963 1,795	23,822 1,491	25, 548 1, 455	27, 528 1, 078	25,749 1,281
Total	22,712	23,758	25,313	27,003	28,606	27,030
Departures to the United States and British Co- lumbia:	10 500	01 278	00 045	10 700	05.400	20.060
Southeastern, southern, and western Alaska Nome, St. Michael, and Bering Sea	18,502 3,375	21, 376 2, 974	22,645 1,893	19,793 1,614	25, 426 1, 433	30,089 1,170
Total	21,877	24,350	24, 538	21,407	26, 859	31,259
Arrivals at Eagle from Dawson, Yukon territory.	594	914	785	1,066	1,182	759
Departures from Eagle to Dawson, Yukon territory.	935	1,448	1,102	873	727	674
Total	1, 529	2, 362	1, 887	1,939	1,909	1, 433

Comparative statement of imports and exports for 15 years.

1903	\$44, 878, 222	1911	\$57, 754, 847
1904	53, 417, 799	1912	72, 924, 885
1905	54, 116, 582	1913	67, 529, 525
1906	63, 488, 294	1914	70, 505, 868
1907	48, 280, 512	1915	82, 874, 122
1908	53, 776, 804	1916	119, 937, 443
1909	58, 923, 143	1917	141, 125, 462
1910	55, 000, 337		

Comparative statement of Alaskan products shipped from Alaska to the United States for 15 years.

1903	\$15, 928, 217	1911	\$33, 856, 264
1904	19, 655, 911	1912	40, 354, 178
1905	22, 065, 733	1913	34, 693, 590
1906	30, 759, 159	1914	40, 157, 778
1907	27, 682, 263	1915	50, 335, 683
1908	30, 299, 788	1916	79, 051, 758
1909	31, 686, 112	1917	90, 354, 962
1910	28, 660, 279		

The tables following give the value of merchandise shipped to Alaska from the United States for the year 1917, segregated as to place of consignment. with comparative statements for 5 years and customs transactions for 12 years:

Value of merchandise shipped from United States to first division.

Auk Bay	50, 988 146, 217 137, 989 21, 356 89, 531	Douglas Doyhof Dundas Excursion Inlet Funter Bay Gambler Bay	111, 473 123, 376 386, 542 164, 677 89, 735
Chilkoot Chomley Craig	196, 875	George Inlet Glacier Bay	104, 013

Gypsum	\$ 9, 503	Port Walter	\$ 369, 823
Hadley	18, 141	Quadra	83, 942
Haines	230, 029	Red Bluff Bay	42, 872
Hawk Inlet	137, 383	Roe Point	85, 1 36
Heceta	116, 596	Rose Inlet	79, 624
Hidden Inlet	42, 318	Saginaw Bay	13, 757
Hoonah	180, 983	Santa Ana	42, 258
Hunters Bay	53, 820	Shakan	46, 184
Hydaberg	22, 032	Sitka	224, 083
Jualin	21, 528	Skagway	356, 950
Juneau	2, 862, 661	Skowl Arm	42, 877
Kake	152, 741	Sulzer	44, 520
Karheen	61, 709	Taku Harbor	236, 637
Kasaan	201, 757	Tee Harbor	119, 473
Ketchikan	2, 446, 764	Tenakee	75, 921
Killisnoo	55, 63 0	Thane	466, 080
Klawock	86, 917	Tokeen	26, 321
Lake Bay	36, 040	Treadwell	517, 783
Loring	89, 493	Туее	14, 889
Letnikof Cove	60, 031	Union Bay	57, 180
Metlakahtla	59, 043	Ward Cove	27, 382
Moira Sound	24, 539	Washington Bay	10, 271
Nakat Inlet	42, 817	Waterfall	110, 922
Noyes Island	17,009	Wrangell	640, 427
Petersburg	685, 016	Yakutat	142, 814
Point Conclusion	14, 865	Yes Bay	113, 525
Point Ellis	112, 869		
Point Warde	45, 276	Total	14, 049, 468
Port Armstrong	20, 809		• •

Comparative statement of principal places in first division.

Name.	1913	1914	1915	191 ;	1917
Donglas	\$473, 901	\$495, 432	\$489,750	\$565 , 181	\$350,975
HainesJuneau and Thane	290, 894 3, 240, 681	274, 273 4, 017, 710	214, 705 3, 597, 231	228,607 4,277,684	230, 029 3, 328, 741
Ketchikan	1, 250, 878	1, 548, 228	1, 190, 888	1, 935, 603	?, 446, 764
Loring.		126, 655 246, 556	100, 682 242, 976	150, 643 435, 992	89, 493 685, 016
Petersburg Sitka		167, 451	142, 376	165, 572	224, 083
Skagway	369, 799	390, 561	471, 388	423, 274	356, 950
Treadwell	1,024.027 419.761	1, 002, 372 355, 558	1, 002, 931 369, 446	1, 332, 303 518, 880	517, 783 640, 427
All other places		2, 450, 736	2, 507, 038	3, 556, 128	5, 179, 207
Tota	9, 725, 472	11, 075, 532	10, 329, 411	13, 589, 867	14, 049, 46

Value of merchandise shipped from United States to second division.

Andreofsky	\$26, 360 17, 877 35, 724 40, 791 65, 837 11, 821	Old Hamilton Point Barrow Point Hope St. Michael Solomon Stevens Village	3, 879 2, 867 447, 959 14, 648 6, 298
Golovin Keewalik Kiana		Taylor Teller Unalakleet	7, 454 55, 851 22, 690
Kotzebue Marshall Mountain Village	37, 474 110, 043 11, 174	Wales	2, 613 14, 226
Nome	882, 495	Total 1	, 992, 533

Comparative statement of principal places in second division.

Name.	1913	1914	1915	1916	1917
Candle	66, 967 109, 759	\$46,799 37,445 76,024 1,874 926,806 387,492 60,803 376,691	\$37,802 29,713 69,379 8,153 1,110,345 540,245 55,269 225,839	\$20,340 22,110 94,520 93,864 1,049,245 287,807 26,006 181,848	\$25, 724 65, 837 129, 999 110, 043 882, 495 447, 959 55, 851 264, 625
Total	2,741,588	1,913,936	2, 076, 745	1, 776, 400	1,992,533

Value of merchandise shipped from United States to third division.

value of merchandise	shipped from	m United States to third div	ision.
Abercrombie	\$25, 977	McDougall	\$19, 789
Afognak	21, 573	Makushin	59, 639
Akutan	93, 077	Matanuska	7, 441
Alagnak	154, 433	Morzhovoi Bay	
Alitak	76, 650	Naknek	447, 896
Anchorage	3, 800, 693	Nellie Juan	92, 569
Apokak	23, 883	Nelson Lagoon	42, 320
Atka	13, 106	Nushagak	908, 734
Bethel	74, 604	Orca	132, 801
Bristol Bay	1, 117, 674	Ouzinkie	
Chignik	262, 121	Pavlof	4, 292
Chitina	184, 456	Pirate Cove	34, 686
Cold Bay	3, 666	Port Graham	133, 028
Cooks Inlet	138, 972	Port Heiden	8, 259
Copper Center	3, 953	Port Moller	247, 085
Cordova	2, 727, 390	Port Wells	9, 498
Ekuk	103, 753	Quinhagak	11, 588
Ellamar	136, 172	Sanak	8, 946
False Pass	146, 510	Sand Point	20, 708
Fidalgo Bay	5, 439	Seldovia	143, 549
Fort Liscum	63, 120	Seward	1 , 258. 653
Herendeen Bay	379, 317	Shepards Point	82, 094
Hope	5, 711	Shushana	44, 853
Ikatan	167, 587	Squaw Harbor	15, 454
Karluk	28, 896	Streina	74, 264
Katalla	826, 827	Susitna	28, 920
Kenai	252, 929	Ugaguk	106, 455
Kennicott	754, 489	Ugashik	61, 474
King Cove	137, 449	Unalaska	68, 346
Knik	103, 356	Unga	59, 170
Kodiak	177, 306	Uyak	103, 716
Koggiung	265, 013	Valdez	669, 642
Kvichak	666, 729	Wasilla	43, 386
Larsen Bay	149, 349	Wood River	15, 363
Latouche	878, 693	<u>-</u>	
McCarthy	269, 387 l	Total	19, 234, 642

Comparative statement of principal places in third division.

Name.	1913	1914	1915	1916	1917
Anchorage. Bristol Bay. Chignik. Chitina. Cordova. Katalia. Kennicott Kodiak. Kvichak. Latouche Beward Valdez. All other places. Total	\$1,774,890 277,339 109,553 832,067 47,861 76,085 111,489 220,208 106,323 231,704	\$1,227,787 180,294 180,273 783,834 24,062 115,729 125,841 217,958 315,296 670,710 3,057,008 6,018,269	\$974, 724 1,485, 634 185, 499 965, 762 35, 740 196, 657 92, 438 223, 220 627, 257 34, 965 3, 455, 181 8,710, 344	\$2,009,703 777,199 217,269 217,269 1,222,001 88,702 412,088 103,067 107,543 855,561 855,561 33,631,339	\$3, 800, 698 11, 117, 677 262, 121 262, 121 184, 456 2, 727, 390 826, 827 754, 439 177, 390 666, 732 878, 633 1, 258, 633 5, 999, 989

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Value of merchandise shipped from United States to fourth division.

		-	
Alatna	\$ 3, 684	Livengood	\$ 21, 674
Anvik	7.854	Long	18, 869
Beaver	1, 931	Louden	11, 514
Bettles	63, 835	McGrath	61, 572
Chatanika	10, 744	Minto	4, 384
Chena	4, 370	Napamute	10, 810
Circle	70, 270	Nenana	1, 077, 284
Dikeman	24, 710	Nulato	50, 131
Eagle	66, 491	Ophir	7, 939
Fairbanks	1, 524, 513	Rampart	31, 353
Flat	43, 333	Ruby	330, 612
Fox	5, 359	Russian Mission	9, 047
Fort Yukon	56, 722	Stevens Creek	14, 544
Holikachuk	3, 989	Tacotna	63, 701
Holy Cross	90, 674	Tanana	218, 117
Hot Springs	131, 731	Terminal	39, 104
Iditarod	379, 828	Tolovana	69, 875
Kaltag	4, 107		
Kokrines	5, 240	Total	4, 561, 525
Koyokuk	21, 610		• •

Comparative statement of principal places in fourth division.

Name.	1913	1914	1915	1916	1917
Chena Eagle Fairbanks Hot Springs Iditared Nenana Ruby Tanana All other places.	1,280,508- 115,490 482,189 289,750 241,317	\$14,984 65,142 1,304,556 158,308 323,343 169,262 199,716 367,812	\$4,817 36,667 1,103,802 128,084 219,047 209,776 171,806 302,669	\$18,110 43,971 1,544,133 153,116 371,784 235,313 370,469 220,112 576,198	\$4,370 66,491 1,524,518 131,731 379,828 1,077,284 330,612 218,117 828,579
Total	2, 907, 684	2,603,123	2,176,668	3, 533, 206	4, 561, 525

Merchandise shipped from United States to Alaska.

Judicial divisions.	1911	1912	1913	1914	1915	1916	1917
First	\$5,492,416 2,940,805 4,688,702 2,047,226	\$9,769,224 2,964,096 6,500,461 2,698,980	\$9,725,472 2,741,588 6,314,946 2,907,684	\$11,075,532 1,913,936 6,018,269 2,603,123	\$10, 329, 411 2, 076, 745 8, 710, 344 2, 176, 668	\$13,589,867 1,776,400 11,935,320 3,533,206	\$14,049,468 1,992,533 19,234,642 4,561,525
Total	15, 169, 149	21, 992, 761	21, 689, 690	21, 610, 860	23, 293, 168	30, 834, 793	39, 838, 168

Gold and silver shipped to the United States.

Judicial divisions.	1911	1912	1913	1914	1915	1916	1917
First	\$3,730,264 3,246,498 404,861 7,318,071	\$4,040,858 3,138,881 734,507 8,117,459	\$3,586,164 2,239,067 592,008 6,542,037	\$4,177,069 2,602,273 1,491,248 6,399,315	\$5,350,209 2,796,952 1,649,453 6,293,797	\$5,638,387 3,035,631 1,523,206 6,134,893	\$4, 592, 716 2, 573, 186 1, 321, 381 6, 452, 157
Total	14,699,694	16,081,705	12,959,266	14,729,905	16,090,411	16,332,117	14,939,440

Merchandise shipped to the United States.

Judicial divisions.	1916	1917
First Second	\$16, 586, 723 289, 626 45, 156, 608 474, 854	\$25, 885, 753 702, 118 49, 432, 283 631, 814
Fourth	62, 507, 811	76,651,968

These tables show the segregation by judicial divisions for several years of shipments of merchandise from, precious metals to, and a new feature, merchandise to the United States.

Statement of number and tonnage of vessels entered and cleared for the years 1915, 1916, and 1917.

DOMESTIC TRADE.

		19	15			19	16		1917			
Port.	Ent	ered.	Clea	red.	Entered.		intered. Cleared.		Entered.		Cleared.	
	Num- ber.	Ton- nage.	Num- ber.	Ton- nage.	Num- ber.	Ton- nage.	Num- ber.	Ton- nage.	Num- ber.	Ton- nage.	Num- ber.	Ton- nage.
Ketchikan Wrangell	709	403,080 5,770		399,337 2,011	927	448, 609 2, 207	1,120	423, 722 2, 199	969	479,774 1,778		448, 766 956
Juneau Skagway St. Michael	17 2 4				31 4	29,590 2,737 10,868	36 12	26,643	46 5	22, 160	47	21,386 1,330
Nome Unalaska Cordova	22 13 11	35, 315 6, 490	18	31,881 8,705	19 11 28	39,447 7,203 43,982	16 21	30, 811 11, 614	· 22	35,718 9,197	13 17	20, 970
Sulzer Total	11 8 792	5, 967 512, 314	14		17	12, 174 596, 817	<u> </u>	23, 528 608, 778		20, 864 637, 503	20	
		<u> </u>			REIGN	TRAT		l	L	<u> </u>	<u> </u>	

Recapitulation of customs business, by ports, for the year ended Dec. 31, 1917.

	Vessels	entered.	Vessels	cleared.	Timetados	Vessela	Total	Total	
Port.	Foreign.	Coast- wise.	Foreign.	Coast- wise.	Entries taken.	docu- mented.	vessels entered.	vessels cleared.	
CordovaEagleForty Mile	2 51	27	51	61	89 17	14	29 51	61 51	
Juneau Ketchikan Nome St. Michael	9 767 15	46 989 22 7	409 13	47 1,201 13 6	112 138 25	193 256 72	55 1,756 37	47 1,610 26 6	
Skagway	1 9 3 31	5 25 17 13	19 9 1 30	2 20 17 15	819 8 181	2 23 12 71	6 34 20 44	21 29 18 45	
Total	888	1,151	532	1,382	1,389	643	2,039	1,914	

Comparative statement of customs business for the district, 1906-1917.

	Vessels o	entered.	Vessels	cleared.	7	Vessels	Total	Total
Years.	Foreign.	Coast- wise.	Foreign.	Coast- wise.	Entries taken.	docu- mented.	vessels entered.	vessels cleared.
1906. 1907. 1908. 1909. 1910. 1911. 1913. 1914. 1915. 1916.	338 341 280 318 393 267 318 365 378 602 866	436 445 410 418 451 514 770 812 805 792 1,051	304 303 197 262 365 331 282 282 327 349 585 539 682	426 426 406 414 419 495 643 770 810 817 1,290	1,996 1,636 1,113 1,104 1,190 1,200 1,292 1,318 1,069 1,129 1,669 1,389	. 308 378 152 176 190 276 349 880 576 587 581 643	824 706 690 736 844 681 1,088 1,177 1,183 1,304 1,917 2,039	730 738 603 676 785 836 925 1,000 1,159 1,402 1,839

APPENDIX D.

Newspapers in Alaska.

Anchorage:

Anchorage Times (daily and weekly).

Anchorage Railroad Record (weekly).

Anchorage Democrat (weekly).

Chitina:

The Chitina Leader (weekly).

Cordova:

The Alaska Times (daily).
The Cordova Herald (daily).

Douglas:

Douglas Island News (weekly).

Fairbanks:

The Alaska Citizen (daily and weekly).

The Fairbanks Tews Miner

(daily).

Juneau:
The Alaska Daily Empire.
Daily Alaska Dispatch.

Ketchikan:

Ketchikan Progressive - Miner (daily and weekly).

Alaska Pioneer (monthly).

Kodiak:

Orphanage News Letter (monthly).

Nenana:

Nenana News (daily).

Nome:
Nome Nugget (triweekly).

Industrial Worker (triweekly). Petersburg:

The Report (weekly).

Ruby:

The Record Citizeh (weekly).

Seward:

The Seward Gateway (daily).

The Alaska Weekly Post.

Skagway:

The Daily Alaskan.

Sitka:

The Verstovian (monthly).

Unalakleet:

Northern Light (monthly).

Valdez:

The Valdez Miner (weekly).

Wrangell:

The Wrangell Sentinel (weekly).

APPENDIX E.

Incorporated Towns.

Name.	Date of incorporation.	Mayor.	Name.	Date of incorporation.	Mayor.
Chena Cordova Douglas Eagle Fairbanks Halnes Iditarod Juneau Ketchikan	1904 1909 1902 1901 1903 1910 1911 1900 1906	W. S. Laymon, W. R. Hillery, Elmer E. Smith. J. B. Howard. E. A. Suter. N. G. Hanson. Paul La Plant. Emery Valentine. Arthur A. Wakefield.	Nome. Petersburg. Se ard Skag ay Tanana Sitka Valdez Wrangell	1910 1912	G. J. Lomen. Erick Ness. Harry V. Hoben. Howard Ashley. B. B. Mozee. A. G. Shoup. Anthony J. Dimond. F. Matheson.

APPENDIX F.

Laws Relating to Alaska Passed at the First and Second Sessions of the Sixty-fifth Congress.

[Public-No. 68-65TH Congress.]

[H. R. 3932.]

AN ACT To prohibit the manufacture, distribution, storage, use, and possession in time of war of explosives, providing regulations for the safe manufacture, distribution, storage, use and possession of the same, and for other purposes.

SEC. 4. That the word "person," when used herein, shall include States, Territories, the District of Columbia, Alaska, and other dependencies of the United States, and municipal subdivisions thereof, individual citizens, firms, associations, societies and corporations of the United States and of other countries at peace with the United States.

SEC. 13. That the President, by and with the advice and consent of the Senate, may appoint in each State and in Alaska an explosives inspector, whose duty it shall be, under the direction of the Director of the Bureau of Mines, to see that this act is faithfully executed and observed. Each such inspector shall receive a salary of \$2,400 per annum. He may at any time be detailed for service by said director in the District of Columbia or in any State, Territory, or dependency of the United States. All additional employees required in carrying out the provisions of this act shall be appointed by the Director of the Bureau of Mines, subject to the approval of the Secretary of the Interior.

Approved, October 6, 1917.

[Public-No. 94-65TH Congress.]

[S. 2334.]

AN ACT To authorize absence by homestead settlers and entrymen and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That during the pendency of the existing war any homestead settler or entryman shall be entitled to a leave of absence from his land for the purpose of performing farm labor, and such absence, while actually engaged in farm labor, shall, upon compliance with the terms of this act, be counted as constructive residence: Provided, That each settler or entryman within fifteen days after leaving his claim for the purpose herein provided shall file notice thereof in the United States Land Office, and at the expiration of the calendar year file in said land office of the district wherein his claim is situated a written statement, under oath and corroborated by two witnesses, giving the date or dates when he left his claim, date or dates of return thereto, and where and for whom he was engaged in farm labor during such period or periods of absence: Provided further, That nothing herein shall excuse any homestead settler or entryman from making improvements or performing the cultivation required by applicable law upon his claim or entry: Provided further, That the provisions of this act shall apply only to homestead settlers and entrymen who may have filed their application prior to the passage of this act. The Secretary of the Interior is authorized to provide rules and regulations for carrying this act into effect.

Approved, December 20, 1917.

[Public-No. 106-65th Congress.]

[S. 1854.]

AN ACT To save daylight and to provide standard time for the United States.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That, for the purpose of establishing the standard time of the United States, the territory of continental United

States shall be divided into five zones in the manner hereinafter provided. The standard time of the first zone shall be based on the mean astronomical time of the seventy-fifth degree of longitude west from Greenwich; that of the second zone on the ninetieth degree; that of the third zone on the one hundred and fifth degree; that of the fourth zone on the one hundred and twentieth degree; and that of the fifth zone, which shall include only Alaska, on the one hundred and fiftieth degree. That the limits of each zone shall be defined by an order of the Interstate Commerce Commission, having regard for the convenience of commerce and the existing junction points and division points of common carriers engaged in commerce between the several States and with foreign nations, and such order may be modified from time to time.

SEC. 2. That within the respective zones created under the authority hereof the standard time of the zone shall govern the movement of all common carriers engaged in commerce between the several States or between a State and any of the Territories of the United States, or between a State or the Territory of Alaska and any of the insular possessions of the United States or any foreign country. In all statutes, orders, rules, and regulations relating to the time of performance of any act by and officer or department of the United States, whether in the legislative, executive, or judicial branches of the Government, or relating to the time within which any rights shall accrue or determine, or within which any act shall or shall not be performed by any person subject to the jurisdiction of the United States, it shall be understood and intended that the time shall be the United States standard time of the zone within which the act is to be performed.

SEC. 3. That at two o'clock antemeridian of the last Sunday in March of each year the standard time of each zone shall be advanced one hour, and at two o'clock antemeridian of the last Sunday in October in each year the standard time of each zone shall, by the retarding of one hour, be returned to the mean astronomical time of the degree of longitude governing said zone, so that between the last Sunday in March at two o'clock antemeridian and the last Sunday in October at two o'clock antemeridian in each year the standard time in each zone shall be one hour in advance of the mean astronomical time of the

degree of longitude governing each zone, respectively.

SEC. 4. That the standard time of the first zone shall be known and designated as United States Standard Eastern Time; that of the second zone shall be known and designated as United States Standard Central Time; that of the third zone shall be known and designated as United States Standard Mountain Time; that of the fourth zone shall be known and designated as United States Standard Pacific Time; and that of the fifth zone shall be known and designated as United States Standard Alaska Time.

SEC. 5. That all acts and parts of acts in conflict herewith are hereby re-

Approved, March 19, 1918.

[Public-No. 126-65th Congress.]

[H. R. 2316.]

AN ACT To promote export trade, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the words "export trade" wherever used in this act means solely trade or commerce in goods, wares, or merchandise exported, or in the course of being exported from the United States or any Territory thereof to any foreign nation; but the words "export trade" shall not be deemed to include the production, manufacture, or selling for consumption or for resale, within the United States or any Territory thereof, of such goods, wares, or merchandise, or any act in the course of such production, manufacture, or selling for consumption or for resale.

That the words "trade within the United States" wherever used in this act mean trade or commerce among the several States or in any Territory of the United States, or in the District of Columbia, or between any such Territory and another, or between any such Territory or Territories and any State or States of the District of Columbia, or between the District of Columbia and

any State or States.

That the word "association" wherever used in this act means any corporation or combination, by contract or otherwise, of two or more persons, partnerships, or corporations.



Sec. 2. That nothing contained in the act "An act to protect trade and commerce against unlawful restraints and monopolies," approved July second, eighteen hundred and ninety, shall be construed as declaring to be illegal an association entered into for the sole purpose of engaging in export trade and actually engaged solely in such export trade, or an agreement made or act done in the course of export trade by such association, provided such association, agreement, or not is not in restraint of trade within the United States, and is not in restraint of the export trade of any domestic competitor of such association: And provided further, That such association does not, either in the United States or elsewhere, enter into any agreement, understanding, or conspiracy, or do any act which artificially or intentionally enhances or depresses prices within the United States of commodities of the class exported by such association, or which substantially lessens competition within the United States or otherwise restrains trade therein.

Sec. 3. That nothing contained in section seven of the act entitled "An act to supplement existing laws against unlawful restraints and monopolies, and for other purposes," approved October fifteenth, nineteen hundred and fourteen, shall be construed to forbid the acquisition or ownership by any corporation of the whole or any part of the stock or other capital of any corporation organized solely for the purpose of engaging in export trace, and actually engaged solely in such export trade, unless the effect of such acquisition or ownership may be to retrain trade or substantially lessen competition within the United States.

SEC. 4. That the prohibition against "unfair methods of competition" and the remedies provided for enforcing said prohibition contained in the act entitled "An act to create a Federal Trade Commission, to define its powers and dutles, and for other purposes," approved September twenty-sixth, nineteen hundred and fourteen, shall be construed as extending to unfair methods of competition used in export trade against competitors engaged in export trade, even though the acts constituting such unfair methods are done without the territorial jurisdiction of the United States.

Sec. 5. That every association now engaged solely in export trade, within sixty days after the passage of this act, and every association entered into hereafter which engages solely in export trade, within thirty days after its creation, shall file with the Federal Trade Commission a verified written statement setting forth the location of its offices or places of business and the names and addresses of all its officers and of all its stockholders or members, and if a corporation, a copy of its certificate or articles of incorporation and by-laws, and if unincorporated a copy of its articles or contract of association, and on the first day of January of each year thereafter it shall make a like statement of the location of its offices or places of business and the names and addresses of all its officers and of all its stockholders or members and of all amendments to and changes in its articles or certificate of incorporation or in its articles or contract of association. It shall also furnish to the commission such information as the commission may require as to its organization, business, conduct, practices, management, and relation to other associations, corporations, partnerships, and individuals. Any association which shall fail so to do shall not have the benefit of the provisions of section two and section three of this act, and it shall also forfeit to the United States the sum of \$100 for each and every day of the continuance of such failure, which forfeiture shall be payable into the Treasury of the United States and shall be recoverable in a civil suit in the name of the United States brought in the district where the association has its principal office, or in any district in which it shall do business. It shall be the duty of the various district attorners, under the direction of the Attorney General of the United States, to prosecute for the recovery of the forfeiture. The costs and expenses of such prosecution shall be paid out of the appropriation for the expenses of the courts of the United States.

Whenever the Federal Trade Commission shall have reason to believe that an association or any agreement made or act done by such association is in restraint of trade within the United States or in restraint of the export trade of any domestic competitor of such association, or that an association either in the United States or elsewhere has entered into any agreement, understanding, or conspiracy, or done any act which artificially or intentionally enhances or depresses prices within the United States of commodities of the class exported by such association, or which substantially lessens competition within the United States or otherwise restrains trade therein, it shall summon such association, its officers, and agents to appear before it, and thereafter

conduct an investigation into the alleged violations of law. Upon investigation, if it shall conclude that the law has been violated, it may make to such association recommendations for the readjustment of its business in order that it may thereafter maintain its organization and management and conduct its business in accordance with law. If such association fails to comply with the recommendations of the Federal Trade Commission, said commission shall refer its findings and recommendations to the Attorney General of the United States for such action thereon as he may deem proper.

For the purpose of enforcing these provisions the Federal Trade Commission shall have all the powers, so far as applicable, given it in "An act to create a Federal Trade Commission, to define its powers and duties, and for other

purposes."

Approved, April 10, 1918.

[Public-No. 131-65TH Congress.]

[H. R. 9504.]

AN ACT To amend section four thousand and sixty-seven of the Revised Statutes by extending its scope to include women.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section four thousand and sixty-seven of the Revised Statutes be, and the same is hereby, amended so as to read as follows:

"Sec. 4067. Whenever there is a declared war between the United States and any foreign nation or government, or any invasion or predatory incursion is perpetrated, attempted, or threatened against the territory of the United States by any foreign nation or government, and the President makes public proclamation of the event, all natives, citizens, denizens, or subjects of the hostile nation or government, being of the age of fourteen years and upward, who shall be within the United States and not actually naturalized, shall be liable to be apprehended, restrained, secured, and removed as alien enemies, The President is authorized, in any such event, by his proclamation thereof, or other public act, to direct the conduct to be observed, on the part of the United States, toward the aliens who become so liable; the manner and degree of the restraint to which they shall be subject and in what cases, and upon what security their residence shall be permitted, and to provide for the removal of those who, not being permitted to reside within the United States, refuse or neglect to depart therefrom; and to establish any other regulations which are found necessary in the premises and for the public safety."

Approved, April 16, 1918.

[Public—No. 142—65th Congress.]
[H. R. 9832.]

AN ACT To authorise the incorporated town of Seward, Alaska, to issue bonds in any sum not exceeding \$25,000 for the purpose of constructing dikes, flumes, and other works to confine the waters of Lowell Creek for the protection of said town.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the incorporated town of Seward, Alaska, is hereby authorized and empowered to issue bonds in any sum not exceeding \$25,000 for the purpose of constructing dikes, flumes, and other protection to confine the waters of Lowell Creek, and to keep said waters from running over and upon the town of Seward.

Before said bonds shall be issued a special election shall be ordered by the common council of the town of Seward, at which election the question of whether such bonds shall be issued shall be submitted to the qualified electors of said town of Seward whose names appear on the last assessment roll of said town for municipal taxation. Thirty days' notice of any such election shall be given by publication thereof in a newspaper printed and published and of general circulation in said town before the day fixed for such election.

The registration for such election, the manner of conducting the same, and the canvass of the returns of said election shall be, as near as practicable, in accordance with the requirements of law in general or special elections in said municipality, and said bonds shall be issued only upon the condition that a majority of the votes cast at such election in said town shall be in favor of issuing said bonds.

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The bonds above specified, when authorized to be issued as hereinbefore provided, shall bear interest at a rate not to exceed eight per centum per annum, payable semiannually, and shall not be sold for less than their par value with accrued interest and shall be in denominations not exceeding \$1,000 each, the principal to be due in twenty years from date thereof: Provided, however, That the common council of said town of Seward may reserve the right to pay off such bonds in their numerical order at the rate of \$5,000 thereof per annum from and after the expiration of five years from their date. Principal and interest shall be payable in lawful money of the United States of America at the office of the town treasurer, or at such bank in the city of New York, in the State of New York, or such place as may be designated by the common council of the town of Seward; the place of payment to be mentioned in the bonds: And provided further, That each and every such bond shall have the written signature of the mayor and clerk of said town of Seward and also bear the seal of said town.

No part of the funds arising from the sale of said bonds shall be used for any purpose other than specified in this act. Said bonds shall be sold only in such amounts as the common council shall direct, and the proceeds thereof shall be disbursed under the limitations hereinbefore imposed and under the order and direction of said common council, from time to time, as the same may be required for the purposes aforesaid.

Approved, May 1, 1918.

[Public-No. 180-65TH Congress.]

[H. R. 8563.]

AN ACT To amend the homestead law in its application to Alaska, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the act of Congress entitled "An act to amend the United States homestead law in its application to Alaska, and for other purposes," approved July eighth, nineteen hundred and sixteen, is hereby amended to read as follows:

"Section 1. That every person who is qualified under existing laws to make homestead entry of the public lands of the United States who has settled upon or who shall hereafter settle upon any of the public lands of the United States situated in the District of Alaska, whether surveyed or unsurveyed, with the intention of claiming the same under the homestead laws, shall, subject to the provisions and limitations of the act approved March third, nineteen hundred and three, chapter one thousand and two. United States Statutes at Large, page one thousand and twenty-eight, be entitled to enter one hundred and sixty acres or a less quantity of unappropriated public land in said District of Alaska, and no more; and a former homestead entry in any other State or Territory shall not be a bar to a homestead entry in Alaska: Provided, That nothing herein contained shall be construed to limit or curtail the area of any homestead claim heretofore lawfully initiated.

"Sec. 2. That if the system of public surveys has not been extended over the land included in a homestead entry, the entryman may, after due compliance with the terms of the homestead law in the matter of residence, cultivation, and improvement, submit to the register and receiver a showing as to such compliance, duly corroborated by two witnesses; and if such evidence satisfactorily shows that the homesteader is in a position to submit acceptable final proof the surveyor general of the Territory will be so advised and will, not later than the next succeeding surveying season, issue proper instructions for the survey of the land so entered, without expense to the entryman, who may thereafter submit final proof as in similar entries of surveyed lands. So far as practicable, such survey shall follow the general system of public-land surveys, and the entryman shall conform his boundaries thereto: *Provided*, That nothing herein shall prevent the homesteader from securing earlier action on his entry by a special survey at his own expense if he so elects.

his entry by a special survey at his own expense if he so elects.

"Sec. 3. That there shall be excepted from homestead settlement and entry under this act the lands in Annette and Pribilof Islands, the islands leased or occupied for the propagation of foxes, and such other lands as have been or may be reserved or withdrawn from settlement or entry."

Approved, June 28, 1918,

[PUBLIC-No. 186-65TH CONGRESS.]

[S. 1553.]

AN ACT To give effect to the convention between the United States and Great Britain for the protection of migratory birds, concluded at Washington, August sixteenth, nineteen hundred and sixteen, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That this act shall be known by the short title of the "Migratory Bird Treaty Act."

SEC. 2. That unless and except as permitted by regulations made as hereinafter provided, it shall be unlawful to hunt, take, capture, kill, attempt to take, capture or kill, possess, offer for sale, sell, offer to purchase, purchase, deliver for shipment, ship, cause to be shipped, deliver for transportation, transport, cause to be transported, carry or cause to be carried by any means whatever, receive for shipment, transportation, or carriage, or export, at any time or in any manner, any migratory bird included in the terms of the convention between the United States and Great Britain for the protection of migratory birds concluded August sixteenth, nineteen hundred and sixteen, or any part, nest, or egg of any such bird.

SEC. 3. That subject to the provisions and in order to carry out the purposes of the convention, the Secretary of Agriculture is authorized and directed, from time to time, having due regard to the zones of temperature and to the distribution, abundance, economic value, breeding habits, and times and lines of migratory flight of such birds, to determine when, to what extent, if at all, and by what means, it is compatible with the terms of the convention to allow hunting, taking, capture, killing, possession, sale, purchase, shipment, transportation, carriage, or export of any such bird, or any part, nest, or egg thereof, and to adopt suitable regulations permitting and governing the same, in accordance with such determinations, which regulations shall become effective when approved by the President.

SEC. 4. That it shall be unlawful to ship, transport, or carry, by any means whatever, from one State, Territory, or District to or through another State, Territory, or District, or to or through a foreign country, any bird, or any part, nest, or egg thereof, captured, killed, taken, shipped, transported, or carried at any time contrary to the laws of the State, Territory, or District in which it was captured, killed, or taken, or from which it was shipped, transported, or carried. It shall be unlawful to import any bird, or any part, nest, or egg thereof, captured, killed, taken, shipped, transported, or carried contrary to the laws of any Province of the Dominion of Canada in which the same was captured, killed, or taken, or from which it was shipped, transported, or carried.

SEC. 5. That any employee of the Department of Agriculture authorized by the Secretary of Agriculture to enforce the provisions of this act shall have power, without warrant, to arrest any person committing a violation of this act in his presence or view and to take such person immediately for examination or trial before an officer or court of competent jurisdiction; shall have power to execute any warrant or other process issued by an officer or court of competent jurisdiction for the enforcement of the provisions of this act; and shall have authority, with a search warrant, to search any place. The several judges of the courts established under the laws of the United States, and United States commissioners may, within their respective jurisdictions, upon proper oath or affirmation showing probable cause, issue warrants in all such cases. All birds, or parts, nests, or eggs thereof, captured, killed, taken, shipped, transported, carried, or possessed contrary to the provisions of this act or of any regulations made pursuant thereto shall, when found, be seized by any such employee, or by any marshal or deputy marshal, and, upon conviction of the offender or upon judgment of a court of the United States that the same were captured, killed, taken, shipped, transported, carried, or possessed contrary to the provisions of this act or of any regulation made pursuant thereto, shall be forfeited to the United States and disposed of as directed by the court having jurisdiction.

SEC. 6. That any person, association, partnership, or corporation who shall violate any of the provisions of said convention or of this act, or who shall violate or fail to comply with any regulation made pursuant to this act, shall be guilty of a misdemeanor and upon conviction thereof shall be fined not more than \$500 or be imprisoned not more than six months, or both.

SEC. 7. That nothing in this act shall be construed to prevent the several States and Territories from making or enforcing laws or regulations not inconsistent with the provisions of said convention or of this act, or from making or enforcing laws or regulations which shall give further protection to migratory birds, their nests, and eggs, if such laws or regulations do not extend the open seasons for such birds beyond the dates approved by the President in accordance with section three of this act.

Sec. 8. That until the adoption and approval, pursuant to section three of this act, of regulations dealing with migratory birds and their nests and eggs, such migratory birds and their nests and eggs as are intended and used exclusively for scientific or propagating purposes may be taken, captured, killed, possessed, sold, purchased, shipped, and transported for such scientific or propagating purposes if and to the extent not in conflict with the laws of the State, Territory, or District in which they are taken, captured, killed, possessed, sold, or purchased, or in or from which they are shipped or transported if the packages containing the dead bodies or the nests or eggs of such birds when shipped and transported shall be marked on the outside thereof so as accurately and clearly to show the name and address of the shipper and the contents of the package.

SEC. 9. That the unexpended balances of any sums appropriated by the agricultural appropriation acts for the fiscal years nineteen hundred and seventeen and nineteen hundred and eighteen, for enforcing the provisions of the act approved March fourth, nineteen hundred and thirteen, relating to the protection of migratory game and insectivorous birds, are hereby reappropriated and made available until expended for the expenses of carrying into effect the provisions of this act and regulations made pursuant thereto, including the payment of such rent, and the employment of such persons and means, as the Secretary of Agriculture may deem necessary, in the District of Columbia and elsewhere, cooperation with local authorities in the protection of migratory birds, and necessary investigations connected therewith: Provided, That no person who is subject to the draft for service in the Army or Navy shall be exempted or excused from such service by reason of his employment under this act.

Sec. 10. That if any clause, sentence, paragraph, or part of this act shall, for any reason, be adjudged by any court of competent jurisdiction to be invalid, such judgment shall not affect, impair, or invalidate the remainder thereof, but shall be confined in its operation to the clause, sentence, paragraph, or part thereof directly involved in the controversy in which such judgment shall have been rendered.

SEC. 11. That all acts or parts of acts inconsistent with the provisions to this

act are hereby repealed.

Sec. 12. Nothing in this act shall be construed to prevent the breeding of migratory game birds on farms and preserves and the sale of birds so bred under proper regulation for the purpose of increasing the food supply.

SEC. 13. That this act shall become effective immediately upon its passage

and approval.

Approved, July 3, 1918.

[Public-No. 190-65TH Congress.]

[H. R. 11247.]

AN ACT Providing for the protection of the uniform of friendly nations, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That it shall be unlawful for any person, with intent to deceive or mislead, within the United States or Territories, possessions, waters, or places subject to the jurisdiction of the United States, to wear any naval, military, police, or other official uniform, decoration, or regalia of any foreign State, nation, or Government with which the United States is at peace, or any uniform, decoration, or regalia so nearly resembling the same as to be calculated to deceive, unless such wearing thereof be authorized by such State, nation, or Government.

Any person who violates the provisions of this Act shall upon conviction be punished by a fine not exceeding \$300 or imprisonment for not exceeding six months, or by both such fine and imprisonment.

Approved, July 8, 1918.

[Public-No. 205-65TH Congress.]

[S. 4555.]

AN ACT To validate certain public-land entries.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That all entries heretofore erroneously allowed for lands opened to entry under the Act approved February twentieth, nineteen hundred and four (Thirty-third Statutes at Large, page forty-six), and the Act of February sixteenth, nineteen hundred and eleven (Thirty-sixth Statutes at Large, page nine hundred and thirteen), to persons who had previously exhausted their homestead rights, are hereby ratified and confirmed; and any such entry which has been canceled for the reason given shall be reinstated in the absence of conflicts and proceed to patent upon compliance with the law under which the entry was made.

Approved, July 25, 1918.

[PUBLIC-No. 216-65TH CONGRESS.]

[H. R. 8004.]

AN ACT Authorizing the resurvey or retracement of lands heretofore returned as surveyed public lands of the United States under certain conditions.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That upon the application of the owners of three-fourths of the privately owned lands in any township covered by public-land surveys, more than fifty per centum of the area of which town-ships is privately owned, accompanied by a deposit with the United States surveyor general for the proper State, or if there be no surveyor general of such State, then with the Commissioner of the General Land Office, of the proportionate estimated cost, inclusive of the necessary work. of the resurvey or retracement of all the privately owned lands in said township, the Commissioner of the General Land Office, subject to the supervisory authority of the Secretary of the Interior, shall be authorized in his discretion to cause to be made a resurvey or retracement of the lines of said township and to set permanent corners and monuments in accordance with the laws and regulations governing surveys and resurveys of public lands; that the sum so deposited shall be held by the surveyor general or commissioner when ex officio surveyor general and may be expended in payment of the cost of such survey, including field and office work, and any excess over the cost of such survey and the expenses incident thereto shall be repaid pro rata to the person making said deposits or their legal representatives; that the proportionate cost of the field and office work for the resurvey or retracement of any public lands in such township shall be paid from the current appropriation for the survey and resurvey of public lands, in addition to the portion of such appropriation otherwise allowed by law for resurveys and retracements; that similar resurveys and retracements may be made on the application, accompanied by the requisite deposit, of any court of competent jurisdiction, the returns of such resurvey or retracement to be submitted to the court; that the Secretary of the Interior is authorized to make all necessary rules and regulations to carry this act into full force and effect.

Approved. September 21, 1918.

APPENDIX G.

Government Publications on Alaska.

This statement has been prepared in order to give information to the public regarding Government work in and publications on Alaska. There have been included lists of the principal publications of the Interior Department and brief notes regarding the publications of other departments. Publications on early explorations and on topics not referred to may often be obtained by purchase from the Superintendent of Documents, Government Printing Office, Washing-

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ton, D. C. A circular giving general information regarding the Territory may be obtained from the Secretary of the Interior.

Correspondence should in all cases be addressed to the office or officer mentioned.

PUBLIC LANDS.

Circulars regarding the manner of obtaining title to public lands may be obtained from the Commissioner of the General Land Office, Washington, D. C., to whom all correspondence relating to public lands should be addressed.

FISHERIES.

Publications on the fish industry may be obtained from the Bureau of Fisheries, Washington, D. C., which will forward a list of publications free of charge.

AGRICULTURAL AND STOCK RAISING.

Publications on agricultural experiments and development and on stock raising are issued by the Department of Agriculture, and information concerning same may be obtained by addressing the Secretary of Agriculture, Washington,

NAVIGATION.

Charts of the navigable waters, Coast Pilots, and Tide Tables may be purchased from the Coast and Geodetic Survey, Washington, D. C. (catalogue free); papers on astronomical and magnetic work, coast-pilot notes, etc., are published by the Coast and Geodetic Survey, Washington, D. C., and are furnished gratis on application. A list of such publications will be forwarded free of charge.

ROADS AND TRAILS.

Roads and trails are being constructed by the Alaska Road Commission, which is under the supervision of the Secretary of War. Information regarding the progress of this work is contained in the reports of the Secretary of War, which may be consulted at the principal libraries.

NATIVE ARTS AND LANGUAGES.

Studies of arts and languages have been made from time to time by the National Museum and the Bureau of American Ethnology, Washington, D. C., to which communications on these subjects should be addressed.

POST-ROUTE MAP.

A map 33% by 48% inches on a scale of 40 miles to the inch, showing the post offices and mail routes in Alaska, may be obtained from the Post Office Department, Washington, D. C., for 80 cents. Remittance should be by money order, payable to the Third Assistant Postmaster General, Post Office Department, Washington, D. C. Postage stamps can not be accepted.

GOVERNMENT RAILROAD.

The first report of the Alaskan Engineering Commission, which is constructing the Government railroad in Alaska, has been issued as House Document No. 610, Sixty-fourth Congress, first session. This report includes an account of operations from March 12, 1914, to December 31, 1915. The report may be purchased from the Superintendent of Documents, Government Printing Office. Washington, D. C., for 75 cents; it may also be obtained from Senators and Representatives until their limited quota is exhausted.

EDUCATION AND REINDEER SERVICE.

The schools for the education of natives, their medical relief, and the reindeer industry are under the supervision of the Commissioner of Education, to whom communications relating to these subjects should be addressed.

The governor of Alaska is ex officio superintendent of schools for the educa-

tion of white children.



The following reports on schools for natives and on the reindeer service have been issued by the Bureau of Education. An asterisk (*) indicates that the Bureau of Education's stock of the paper is exhausted. These papers can generally be consulted at the principal libraries throughout the country. If a price is given, these publications may be purchased for that amount from the Superintendent of Documents, Government Printing Office. In the case of the reports on native schools the price is for the complete volume, as the Superintendent of Documents has no separates for sale.

NATIVE SCHOOLS.

*1886. Report on education in Alaska, by Sheldon Jackson, 80 pp. 1889. In Annual Report for 1889, vol. 2, pp. 753-764. Cloth, 75 cents. 1890. In Annual Report for 1890, vol. 2, pp. 1245-1300. Cloth, 90 cents. *1891. In Annual Report for 1891, vol. 2, pp. 925-960. Cloth, 75 cents. 1892. In Annual Report for 1892, vol. 2, pp. 873-892. Cloth, 60 cents. *1893. In Annual Report for 1893, vol. 2, pp. 1705-1748. Cloth, 70 cents. *1894. In Annual Report for 1894, vol. 2, pp. 1451-1492. Cloth, 90 cents. *1895. In Annual Report for 1895, vol. 2, pp. 1425-1455. Cloth, 85 cents. *1896. In Annual Report for 1896, vol. 2, pp. 1435-1468. Cloth, 90 cents. *1897. In Annual Report for 1897, vol. 2, pp. 1601-1646. Cloth, 80 cents. *1898. In Annual Report for 1898, vol. 2, pp. 1753-1771. Cloth, 90 cents. 1899. In Annual Report for 1899, vol. 2, pp. 1372-1402. Cloth, 90 cents. 1900. In Annual Report for 1900, vol. 2, pp. 1733–1785. 1901. In Annual Report for 1901, vol. 2, pp. 1459–1480. 1902. In Annual Report for 1902, vol. 2, pp. 1229–1256. 1903. In Annual Report for 1903, vol. 2, pp. 2333–2364. 1904. In Annual Report for 1904, vol. 2, pp. 2257–2268. Cloth, 95 cents. Cloth, 85 cents. Cloth, 90 cents. Cloth, 85 cents. Cloth, \$1.25. *1905. In Annual Report for 1905, vol. 1, pp. 267-282. Cloth, 75 cents. *1906. In Annual Report for 1906, vol. 1, pp. 237-250. Cloth, 75 cents. *1907. In Annual Report for 1907, vol. 1, pp. 371-396. Cloth, 60 cents. *1908. In Annual Report for 1908, vol. 2, pp. 1023-1046. Cloth, 75 cents. *1909. In Annual Report for 1909, vol. 2, pp. 1297-1320. Cloth, 65 cents. *1910. In Annual Report for 1910, vol. 2, pp. 1343-1363. Cloth, 65 cents. *1911. In Annual Report for 1911, vol. 2, pp. 1379–1395. *1912. In Annual Report for 1912, vol. 1, pp. 407–415. 1913. In Annual Report for 1913, vol. 1, pp. 632–640. Cloth, 65 cents. *1914. In Annual Report for 1914, vol. 1, pp. 633-639. Cloth, 65 cents. 1915. In Annual Report for 1915, vol. 1, pp. 635-639. 1916. In Annual Report for 1916, vol. 1, pp. 487-490.

REINDEER SERVICE.

*1893. Senate Misc. Document No. 22, 52d Cong., 2d sess. Sheep, \$2. 1894. Senate Document No. 92, 53d Cong., 3d sess. Cloth, 25 cents. *1895. Senate Document No. 111, 54th Cong., 1st sess. Cloth, 35 cents. *1896. Senate Document No. 49, 54th Cong., 2d sess. Cloth, 35 cents. *1897. Senate Document No. 30, 55th Cong., 2d sess. Cloth, 20 cents. Cloth, 35 cents. *1898. Senate Document No. 34, 55th Cong., 2d sess. Cloth, 40 cents. *1889. Senate Document No. 245, 56th Cong., 2d sess.. Cloth, 40 cents. *1900. Senate Document No. 206, 56th Cong., 2d sess. Cloth, 40 cents. Cloth, 50 cents. *1901. Senate Document No. 98, 57th Cong., 1st sess. *1902. Senate Document No. 70, 57th Cong., 2d sess. Cloth, 40 cents. *1903. Senate Document No. 210, 58th Cong., 2d sess. 1904. Senate Document No. 61, 58th Cong., 2d sess. Cloth, 50 cents. Cloth, 50 cents. *1905. Senate Document No. 499, 59th Cong., 1st sess. Cloth, 60 cents. In Annual Report of the Commissioner of Education for 1906, vol. 1, pp. 237-255. Paper, 15 cents. *1907. In Annual Report of the Commissioner of Education for 1907, vol. 1, pp. 371-411. Cloth, 60 cents. *1908. In Annual Report of the Commissioner of Education for 1908, vol. 2, pp. 1046-1056. Cloth, 75 cents. *1909. In Annual Report of the Commissioner of Education for 1909, vol. 2, pp. 1321-1326. Cloth, 65 cents. *1910. In Annual Report of the Commissioner of Education for 1910, vol. 2, pp. 1364-1370. Cloth, 65 cents. *1911. In Annual Report of the Commissioner of Education for 1911, vol. 2, pp.

1395-1402. Cloth, 65 cents.

- *1912. In Annual Report of the Commissioner of Education for 1912, vol. 1, pp. 415-420.
- 1913. In Annual Report of the Commissioner of Education for 1913, vol. 1, pp. 641, 642.

ALASKA SCHOOL AND REINDEER SERVICE.

- *1912. Bulletin of the Bureau of Education, 1913, No. 36.
 *1913. Bulletin of the Bureau of Education, 1914, No. 31.
 1914. Bulletin of the Bureau of Education, 1915, No. 48.
 *1915. Bulletin of the Bureau of Education, 1916, No. 47.

 *1916. Paper, 10 cents.
 Paper, 25 cents.
 Paper.

 *1917. Paper, 25 cents.
 Paper.

GEOLOGY, MINERAL RESOURCES, WATER RESOURCES, AND MAPS.

Publications on the geology, mineral resources, and water resources, and maps of portions of Alaska are issued by the Geological Survey. In the following list, arranged geographically, are given the titles of some of the recent publications of the Geological Survey.

All of these publications can be obtained or consulted in the following ways:

1. A limited number are printed for the Geological Survey, Washington, D. C., from which they can be obtained, free of charge (except certain maps), on application.

2. A certain number are delivered to Senators and Representatives in Con-

gress for distribution.

3. Other copies are deposited with the superintendent of documents, Wash-

ington, D. C., from whom they can be had at prices slightly above cost.

4. Copies of all Government publications are furnished to the principal public

libraries throughout the United States, where they can be consulted by those

An asterisk (*) indicates that the Geological Survey's stock of the paper is exhausted. If a price is given, the document can be had for that amount from the Superintendent of Documents, Government Printing Office, Washington, D. C.

A complete list can be had on application to the Director of the Geological

Survey.

GENERAL. REPORTS.

- *The geography and geology of Alaska, a summary of existing knowledge, by A. H. Brooks, with a section on climate, by Cleveland Abbe, jr., and a topographic map and description thereof, by R. U. Goode. Professional Paper 45, 1906, 327 pp. \$1.
- Placer mining in Alaska in 1904, by A. H. Brooks. In Bulletin 259, 1905, pp.
- The mining industry in 1905, by A. H. Brooks. In Bulletin 284, 1906, pp. 4-9. The mining industry in 1906, by A. H. Brooks. In Bulletin 314, 1907, pp. 19-39. 30 cents.
- The mining industry in 1907, by A. H. Brooks. In Bulletin 345, 1908, pp. 30-53. 45 cents.
- *The mining industry in 1908, by A. H. Brooks. In Bulletin 379, 1909, pp. 21-62. 50 cents.
- The mining industry in 1909, by A. H. Brooks. In Bulletin 442, 1910, pp. 20-46.
- The mining industry in 1910, by A. H. Brooks. In Bulletin 480, 1911, pp. 21-42.
- *The mining industry in 1911, by A. H. Brooks. In Bulletin 520, 1912, pp. 19-44. 50 cents.
- The mining industry in 1912, by A. H. Brooks. In Bulletin 542, 1913, pp.
- The Alaskan mining industry in 1913, by A. H. Brooks. In Bulletin 592. 1914. pp. 45-74. The Alaskan mining industry in 1914, by A. H. Brooks. In Bulletin 622, 1915.
- pp. 15–68. The Alaskan mining industry in 1915, by A. H. Brooks. In Bulletin 642. 1916.
- pp. 17-71. The Alaskan mining industry in 1916, by A. H. Brooks. In Bulletin 662, 1917, pp. 1-62.
- Railway routes, by A. H. Brooks, In Bulletin 284, 1906, pp. 10-17.

- *Railway routes from the Pacific seaboard to Fairbanks, Alaska, by A. H. Brooks. In Bulletin 520, 1912, pp. 45-88.
- *Geologic features of Alaskan metalliferous lodes, by A. H. Brooks. In Bulletin 480, 1911, pp. 43-93.
- *The mineral deposits of Alaska, by A. H. Brooks. In Bulletin 592, 1914, pp. 18-44.
- *The future of gold-placer mining in Alaska, by A. H. Brooks. In Bulletin 622, 1915, pp. 69-79.
- Tin resources of Alaska, by F. L. Hess. In Bulletin 520, 1912, pp. 89-92. 50 cents.
- The petroleum fields of the Pacific coast of Alaska, with an account of the Bering River coal deposits, by G. C. Martin. Bulletin 250, 1905, 64 pp.
- Alaska coal and its utilization, by A. H. Brooks. Bulletin 442J, reprinted 1914. *The possible use of peat fuel in Alaska, by C. A. Davis. In Bulletin 379, 1909, pp. 63-66. 50 cents.
 - The preparation and use of peat as a fuel, by C. A. Davis. In Bulletin 442, 1910, pp. 101–132
- Methods and costs of gravel and placer mining in Alaska, by C. W. Purington. Bulletin 263, 1905, 362 pp. (Abstract in Bulletin 259, 1905, pp. 32-46. 15
- *Prospecting and mining gold placers in Alaska, by J. P. Hutchins. In Bulletin 345, 1908, pp. 54-77, 45 cents.
- *Geographic dictionary of Alaska, by Marcus Baker; second edition prepared by James McCormick. Bulletin 209, 1906, 690 pp. 50 cents.
- Antimony deposits of Alaska, by A. H. Brooks. Bulletin 649, 1916, 67 pp. Alaska's mineral supplies, by A. H. Brooks. Bulletin 666P, pp. 1-14.

In preparation.

The Mesozoic stratigraphy of Alaska, by G. C. Martin. The mineral springs of Alaska, by G. A. Waring. Water-Supply Paper 418. The tungsten lodes of Alaska, by J. B. Mertie, jr.

- *Map of Alaska showing contours; scale 1:2,500,000; 1906, by R. U. Goode and E. C. Barnard. In *Professional Paper 45. \$1. Not issued separately. Map of Alaska; scale 1:5,000,000; 1912, by A. H. Brooks. 20 cents.
- Map of Alaska; scale 1:1,500,000: 1915, by A. H. Brooks and R. H. Sargent. 80 cents.
- Map of Alaska showing distribution of mineral deposits; scale 1:5.000.000; by A. H. Brooks. 20 cents. Also included in *Bulletin 520. 50 cents. (New edition included in Bulletin 642.)
- Index map of Alaska, including list of publications; scale 1:5,000,000; by A. H. Brooks. Free.
- Map of Alaska, scale 1:12,000,000; 1916, by A. H. Brooks. 1 cent.

SOUTHEASTERN ALASKA.

REPORTS.

- *The Porcupine placer district, Alaska, by C. W. Wright. Bulletin 236, 1904. 35 pp. 15 cents.
 - Economic developments in southeastern Alaska, by F. E. and C. W. Wright. In Bulletin 259, 1905, pp. 47-68.
 - *The Juneau gold belt, Alaska, by A. C. Spencer, pp. 1-137, and A reconnaissance of Admiralty Island, Alaska, by C. W. Wright, pp. 138-154. Bulletin 287, 1906, 161 pp. 75 cents.
 - Lode mining in southeastern Alaska, by F. E. and C. W. Wright. In Bulletin 284, 1906, pp. 30-53.
 - Nonmetallic deposits of southeastern Alaska, by C. W. Wright. In Bulletin 284, 1906, pp. 54-60.
 - *Lode mining in southeastern Alaska, by C. W. Wright. In Bulletin 314, 1907. pp. 47-72. 30 cents.
 - *Nonmetalliferous mineral resources of southeastern Alaska, by C. W. Wright. In Bulletin 314, 1907, pp. 73-81. 30 cents.

*Reconnaissance on the Pacific coast from Yakutat to Alsek River, by Eliot Blackwelder. In Bulletin 314, 1907, pp. 82–88. 30 cents. *Lode mining in southeastern Alaska, 1907, by C. W. Wright. In Bulletin 345,

1908, pp. 78-97. 45 cents.

*The building stones and materials of southeastern Alaska, by C. W. Wright. In Bulletin 345, 1908, pp. 116-126. 45 cents.

*The Ketchikan and Wrangell mining districts, Alaska, by F. E. and C. W. Wright. Bulletin 347, 1908, 210 pp. 60 cents.

*The Yakutat Bay region, Alaska: Physiography and glacial geology, by R. S. Tarr; Areal geology, by R. S. Tarr and B. S. Butler. Professional Paper 64, 1909, 186 pp. 50 cents.

*Mining in southeastern Alaska, by C. W. Wright. In Bulletin 379, 1909, pp. 67-86. 50 cents. Mining in southeastern Alaska, by Adolph Knopf. In Bulletin 442, 1910. pp.

133-143. Occurrence of iron ore near Haines, by Adolph Knopf. In Bulletin 442, 1910,

pp. 144–146. Report of water-power reconnaissance in southeastern Alaska, by J. C. Hoyt.

In Bulletin 442, 1910, pp. 147-157. Geology of the Berners Bay region, Alaska, by Adolph Knopf. Bulletin 446,

1911, 58 pp. Mining in southeastern Alaska, by Adolph Knopf. In Bulletin 480, 1911, pp. 94-102.

The Eagle River region, by Adolph Knopf. In Bulletin 480, 1911, pp. 103-111. The Eagle River region, southeastern Alaska, by Adolph Knopf. Bulletin 502. 1912, 61 pp.

The Sitka mining district, Alaska, by Adolph Knopf. Bulletin 504, 1912, 32 pp. The earthquakes at Yakutat Bay, Alaska, in September, 1899, by R. S. Tarr and Lawrence Martin, with a preface by G. K. Gilbert. Professional Paper 69, 1912, 135 pp.

Marble resources of Ketchikan and Wrangell districts, by E. F. Burchard. In Bulletin 542, 1913, pp. 52-77.

Marble resources of the Juneau, Skagway, and Sitka districts, by E. F. Burchard. In Bulletin 592, 1914, pp. 95-107.

A barite deposit near Wrangell, by E. F. Burchard. In Bulletin 592. 1914. pp. 109-117.

Lode mining in the Ketchikan district, by P. S. Smith. In Bulletin 592. 1914. pp. 75-94.

The geology and ore deposits of Copper Mountain and Kasaan Peninsula, Alaska, by C. W. Wright. Professional Paper 87, 1915, 110 pp.

Mining in the Juneau region [1914], by H. M. Eakin. In Bulletin 622, 1915, pp. 95-102.

Notes on the Geology of Gravina Island, Alaska, by P. S. Smith. In Professional Paper 95, 1916, pp. 97-105.

Mining developments in southeastern Alaska [1915], by Theodore Chapin. In Bulletin 642, 1916, pp. 73-104. Water-power investigations in southeastern Alaska, by G. H. Canfield.

Bulletin 642, 1915, pp. 105-128. Mining development in Ketchikan and Wrangell districts [1916], by Theodore

Chapin. In Bulletin 662, 1917, pp. -Lode mining in the Juneau gold belt [1916], by H. M. Eakin. In Bulletin

662, 1917, pp. -

Gold placer mining, Porcupine district [1916], by H. M. Eakin. In Bulletin 662, 1917, pp. —

Water-power investigations in southeastern Alaska [1916], by G. H. Canfield. In Bulletin 662, 1917, pp. -

In preparation.

Geology of the Glacier Bay and Lituya region, by F. E. and C. W. Wright. The structure and stratigraphy of Gravina and Revilla gigedo islands, Alaska, by Theodore Chapin. In Professional Paper 120. The Porcupine district, Alaska, by H. M. Eakin.

Marble resources of southeastern Alaska, by E. F. Burchard. The Ketchikan district, Alaska, by Theodore Chapin.

TOPOGRAPHIC MAPS.

- *Juneau gold belt, Alaska; scale, 1:250,000; compiled. In *Bulletin 287. 75 cents. Not issued separately.
 - Juneau special (No. 581A); scale, 1:62,500; by W. J. Peters. 10 cents each, or \$3 for 50.
 - Berners Bay special (No. 581B); scale, 1:62,500; by R. B. Oliver. 10 cents each, or \$3 for 50.
 - Kasaan Peninsula, Prince of Wales Island (No. 540A); scale, 1:62,500; by
 D. C. Witherspoon, R. H. Sargent, and J. W. Bagley. 10 cents each, or \$3 for 50.
- Copper Mountain and vicinity, Prince of Wales Island (No. 540B); scale, 1:62,500; by R. H. Sargent. 10 cents each, or \$3 for 50.

 Eagle River Region (No. 581C); scale, 1:62.500; by J. W. Bagley, C. E. Giffin, and R. E. Johnson. In Bulletin 502. Not issued separately.

In preparation.

Juneau special; scale, 1:24,000; by D. C. Witherspoon.

CONTROLLER BAY, PRINCE WILLIAM SOUND, AND COPPER RIVER REGIONS.

REPORTS.

- *The petroleum fields of the Pacific coast of Alaska, with an account of the Bering River coal deposits, by G. C. Martin. Bulletin 250, 1905, 64 pp. 15
- *Geology of the central Copper River region, Alaska, by W. C. Mendenhall. Professional Paper 41, 1905, 133 pp. 50 cents.
 *Geology and mineral resources of Controller Bay region, Alaska, by G. C. Mar-
- tin. Bulletin 335, 1908, 141 pp. 70 cents.
- *Notes on copper prospects of Prince William Sound, by F. H. Moffit. In Bulletin 345, 1908, pp. 176-178. 45 cents.
- Mineral resources of the Kotsina-Chitina region, by F. H. Moffit and A. G. Maddren. Bulletin 374, 1909, 103 pp.

 *Copper mining and prospecting in Prince William Sound, by U. S. Grant and
- D. F. Higgins, jr. In Bulletin 379, 1909, pp. 87-96. 50 cents.
- *Gold on Prince William Sound, by U. S. Grant. In Bulletin 379, 1909, p. 97. 50 cents.
- *Mining in the Kotsina-Chitina, Chistochina, and Valdez Creek regions, by F. H. Moffit. In Bulletin 379, 1909, pp. 153-160. 50 cents.
- Mineral resources of the Nabesna-White River district, by F. H. Moffit and Adolph Knopf; with a section on the quaternary, by S. R. Capps. Bulletin 417, 1910, 64 pp.
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- •Gold deposits near Valdez, by A. H. Brooks. In Bulletin 520, 1912, pp. 108-130. 50 cents.
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Controller Bay region; scale, 1:62,500; by E. G. Hamilton and W. R. Hill. 35 cents. No wholesale rates.

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Fortymile quadrangle (No. 640); scale. 1:250,000; by E. C. Barnard. 10 cents each, or \$3 for 50. Also in Bulletin 375.

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SEWARD PENINSULA.

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*Recent developments in southern Seward Peninsula, by P. S. Smith. Bulletin 379, 1909, pp. 267-301. 50 cents.

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- *Mining in the Fairhaven district, by F. F. Henshaw. In Bulletin 379, 1909, pp. 355-369. 50 cents.
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 - Geology of the Nome and Grand Central quadrangles, Alaska, by F. H. Moffit.
- Bulletin 533, 1913, 140 pp.
 *Surface water supply of Seward Peninsula, Alaska, by F. F. Henshaw and G. L. Parker, with a sketch of the geography and geology by P. S. Smith, and a description of methods of placer mining, by A. H. Brooks; including topographic reconnaissance map. Water-Supply Paper 314, 1913. 317 pp. 45 cents.
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TOPOGRAPHIC MAPS.

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Seward Peninsula, southern portion, reconnaissance map (No. 656); scale, 1: 250,000; by C. E. Barnard, T. G. Gerdine, and others. 50 cents each, or \$30 a hundred. Also in Bulletin 328.

Seward Peninsula, southeastern portion, reconnaissance map (Nos. 655-656); scale, 1:250,000; by E. C. Barnard, D. L. Reaburn, H. M. Eakin, and others. In Bulletin 449. Not issued separately

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Grand Central quadrangle (No. 646A); scale, 1:62,500; by T. G. Gerdine, R. B. Oliver, and W. R. Hill. 10 cents each, or \$3 for 50. Also in Bulletin

Nome quadrangle (No. 646B); scale, 1:62,500; by T. G. Gerdine, R. B. Oliver, and W. R. Hill. 10 cents each, or \$3 for 50. Also in Bulletin 533.

Casadepaga quadrangle (No. 646C); scale, 1:62,500; by T. G. Gerdine, W. B.

Corse, and B. A. Yoder 10 cents each, or \$3 for 50. Also in Bulletin 433. Solomon quadrange (No. 646D); scale, 1:62,500; by T. G. Gerdine, W. B. Corse, and B. A. Yoder. 10 cents each, or \$3 for 50. Also in Bulletin 433.

NORTHERN ALASKA.

REPORTS.

*A reconnaissance in northern Alaska across the Rocky Mountains, along Koyukuk, John, Anaktuvuk, and Colville Rivers and the Arctic coast to Cape Lisburne in 1901, by F. C. Schrader, with notes by W. J. Peters. Professional Paper 20, 1904, 139 pp. 40 cents.

*Geology and coal resources of the Cape Lisburne region, Alaska, by A. J. Collier. Bulletin 278, 1906, 54 pp. 15 cents.
*Geologic investigations along the Canada-Alaska boundary, by A. G. Maddren.

In Bulletin 520, 1912, pp. 297-314. 50 cents.

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The Koyukuk-Chandalar region, Alaska, by A. G. Maddren. Bulletin 532, 1913. 119 pp.

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The geology of the Alaska-Canada boundary region, by A. G. Maddren.

TOPOGRAPHIC MAPS.

*Koyukuk River to mouth of Colville River, including John River; scale, 1:1,250,000; by W. J. Peters. In *Professional Paper 20. 40 cents. Not issued separately.

Koyukuk and Chandalar region, reconnaissance map; scale, 1:500,000; by T. G. Gerdine, D. L. Reaburn, D. C. Witherspoon, and A. G. Maddren. In Bulletin 532. Not issued separately.

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REPORT OF THE GOVERNOR OF HAWAII

621

REPORT OF THE GOVERNOR OF HAWAII.

EXECUTIVE CHAMBER, Honolulu, Hawaii, August 31, 1918.

The Secretary of the Interior.

Sir: I beg to hand you the following report for the year ended June 30, 1918, which embraces reports of the several Territorial departments, together with statistical information from Federal departments.

FOOD COMMISSION.

The legislature at its 1917 session passed an act "Creating a commission to increase, conserve, regulate, and control the food supplies of the Territory of Hawaii, and defining its powers and duties and making an appropriation for the purposes thereof."

The chief aim of the food commission was embodied in the cabled appeal of the Secretary of Agriculture, in April, 1917. for

Hawaii to make itself as nearly self-supporting as possible.

The aims of the food commission have run parallel to those of the

Federal Food Administration.

Considerable work has been done by the commission to stimulate the production of beef, rice, and taro (from which poi, the native food is made).

The following is an estimate of the crop outlook for the coming

year. Where bags are mentioned they mean 100 pounds:

Rice planted, 5,549 acres; estimated yield, 235,125 bags.

Bananas planted, 820 acres; no estimate given. Beans, 959 acres; estimated yield, 11,445 bags.

Irish potatoes, 620 acres; estimated yield, 91,500 bags. Sweet potatoes, 760 acres; estimated yield, 61,600 bags.

Corn, 9,290 acres; estimated yield, 99,917 tons.

Alfalfa, 463 acres; estimated yield, 5,973 tons. Cassava, 108 acres; estimated yield, 25.820 bags.

Food savings to the amount of \$2,460,183.95, for the 11 months ended May 31, 1918, was the response of the Territory to the call from the Government for conservation of foodstuffs, which is an increase of savings of \$610,574.75.

IMPORTS AND EXPORTS OF FOOD STUFFS.

While the value of imports for the year has increased, the quantity has diminished.

Imports for human consumption amounted to \$11,374,778, as against \$10,419,371 for the previous year, an increase of \$955,407. Imports from the mainland of the United States amounted to \$8,373,-334, divided as follows: Provisions, meats, and dairy, \$1.771,071;

breadstuffs, \$1,553,583; tobacco, \$1,069,529; spirits, \$868,067; fish, \$588,715; fruits and nuts, \$587,594; rice, \$546,529; vegetables, \$700,021; eggs, \$192,027; sugar, \$125,291; sundries, \$370,907.

Imports from foreign countries totaled \$3,001,444, of which \$2,879,-

977 was for food supplies and \$121,467 for spirits.

Exports of edibles for human consumption ammounted to \$81,-115,115, of which \$80,807,523 were sent to the United States, divided as follows: Raw sugar, \$69,089,149; refined sugar, \$2,251,874; pine-apples. \$8,199,036; bananas, \$136,048; coffee, \$149,593; rice, \$134,141; sundries, \$847,682.

The foregoing figures are from April 1, 1917, to April 1, 1918, as figures for total exports as of June 30, 1918, are not available. For the year ended June 30, the Territory exported to the United States alone, 540,454 tons of sugar, at a value of \$64,108,540, against 581,302

tons, valued at \$62,741,164, for the previous year.

LABOR.

Hawaii is entirely an agricultural country, its chief products being sugar and pineapples. Our two principal crops afford steady em-

ployment for laborers all the year.

For some years prior to the war our principal source of labor supply was from the Philippines, but owing to lack of transportation it is impossible to get any more laborers from that source. Our National Guard and draft quotas have been principally filled by agricultural laborers with the result that our plantations have been compelled for the time being to abandon the less productive fields. To continue to produce the former yields of food supplies it is absolutely necessary that something be done to induce laborers to come into the Territory.

NATIONAL GUARD.

Since the last report the National Guard of Hawaii has been taken into the service of the United States Government, and the two regiments are stationed at Fort Shafter and Schofield Barracks.

Efforts are being made with every hope of success to organize a

home guard, to be known as the Fifth Infantry.

GOVERNMENT LANDS.

The leases of many tracts of Government lands have either expired or are about to expire. These lands have been cultivated in sugar cane. As it takes from six to nine months from the time the Government comes into possession of the land before all the details of the homestead law can be complied with and the homesteader put on the land, there was a liability of great loss in the production of sugar unless some extra authority was given the land commissioner and the governor.

In sugar production it is necessary, shortly after the harvesting, to get into the fields and irrigate, cultivate, and fertilize, or else the

stools become lost entirely or lose in their sugar content.

During the recent visit of the Secretary of the Interior to the Territory this was fully explained, with the results that a presidential proclamation giving this additional authority to the above-mentioned officials was issued.

Under the provisions of this proclamation a contract has been made with the Waiakea plantation for the cultivation of about 2,000

acres the lease of which expired June 1, 1918.

Under the terms of this contract the plantation is to keep an accurate account of the actual cost of cultivation until the homesteader is put in possession. The homesteader is liable for same, and the plantation is to have a lien on the growing crops until the lien is satisfied.

This one contract means the production of about 10,000 tons of sugar which would otherwise be lost. It is expected that similar con-

tracts will be entered into in connection with other tracts.

As this office is constantly receiving letters from the mainland of the United States asking for information on the subject of homesteading, I feel it is proper that I should explain briefly the method

of procedure.

By the act of Congress entitled "An Act to provide a Government for the Territory of Hawaii," when 25 or more persons, who are eligible to take up homesteads apply to the commissioner of public lands to have any certain tract opened for homesteading, the commissioner shall immediately have the lands surveyed, subdivided, appraised, and advertised. The lands must be advertised for at least 60 days. Applications are received through the mail in especially prepared envelopes and put into a box marked with the name of the special tract.

Any citizen of the United States, whether one of the original 25

petitioners or not, may apply for lots in such division.

When the time for receiving applications has closed the box is opened, the applications are thoroughly mixed, and a clerk draws out an envelope, and with a numbering machine stamps the envelope and the application contained therein.

The application is then examined, and if the applicant is found eligible the name is entered in a book and this person has first choice of the lots in the subdivision. The drawing continues until all of the

applications have been numbered.

Those who are successful in drawing lots must pay down 10 per cent, 15 per cent at the end of the first year, and 15 per cent each succeeding year. Deferred payments bear interest at the rate of 6 per cent per annum.

From the foregoing it can be seen that cases are possible in which

none of the original petitioners secure lots in the drawing.

GREATER HONOLULU HARBOR.

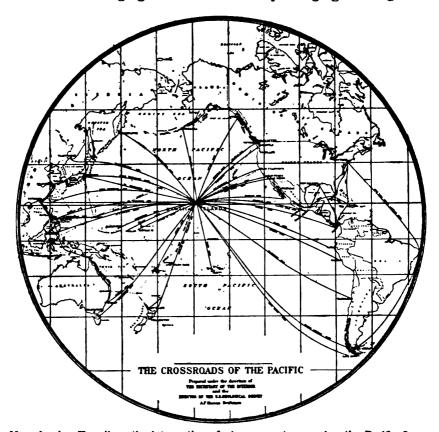
The Territorial government and private interests have done much to improve and extend the facilities of Honolulu Harbor, and if we did not expect a great expansion after the war, these improvements would be considered sufficient for many years to come.

A large part of the American ships now being built will be used after the war in commerce on the Pacific Ocean, and as Honolulu

occupies a position as the hub of Pacific Ocean routes, it is bound to be a port of call for all these vessels for fuel and supplies.

To care for these ships properly it is deemed necessary for the Territory to acquire at as early a date as possible, the harbor side of Sand Island, the title to which is at present vested in the Federal Government.

It is also necessary that Congress should provide funds for the first unit of enlarging Honolulu Harbor by dredging in the general



Map showing Hawaii as the intersection of steamer routes crossing the Pacific Ocean.

direction of Kalihi. If this first unit were completed it would nearly double the size of the present harbor.

This project has been approved by each United States local engineer and has been indorsed by the Board of Engineers for Rivers and Harbors at Washington.

HAWAII AND THE WAR.

In man power and money power Hawaii has responded generously to the call of war. Her women are doing a noble work in the conservation of foodstuffs and for the Red Cross. For the first liberty loan the Territory was called upon to furnish \$2,000,000, and 1,100 subscribers responded with \$2,350,000. In the second loan campaign \$3,000,000 was the quota set, and the response was \$8,060,000 from 19,150 subscribers. Of these subscribers 9,879 were Regular Army men stationed in the Territory. The allotment for the third loan was \$3,614,000, and the response was \$4,809,000 from 15,115 subscribers.

ELECTIONS.

The Territorial elections are held in November of each even year, and the only officers who are elected are one-half of the members of the senate, for four years, and all of the members of the house of representatives, for two years. The county and city and county elective officers are the mayor of the city and county of Honolulu and the supervisors, attorney, clerk, treasurer, auditor, and sheriff of each county and city and county.

In the city and county of Honolulu and in the county of Maui the supervisors are elected at large, while in Kauai they are elected from the five districts making up that county. Since 1913 the county of Hawaii has had a system of electing three supervisors from each half of the island, and one, the chairman of the board, from the island at

large.

In 1913 a direct primary law was enacted by the legislature. Provision was also made whereby the counties of Hawaii, Kauai, and Maui could hold elections separately from the Territorial elections, namely, in May of each odd year. Under this law elections were held in these counties in May, 1915. In 1915 a law was passed which provided that all general elections of officers of the city and county of Honolulu after 1915 should be in May, 1917, and biennially thereafter. The 1917 legislature enacted amendments so that general elections of the counties and city and county of Honolulu would be held in June, 1917, and biennially thereafter.

Statistics covering the last general election held in November, 1916,

are as follows:

Registered voters, by races, at each general election.

	Population 1910.		Registered voters.									
	Total.	Male citi- zens of vot- ing age.	1900	1902	1904	1906	1908	1910	1912	1914	1916	Gain 1916 com- pared with 1914.
Hawaiian Portuguese. Chinese Japanese American British German Others	38, 547 22, 303 21, 674 79, 674	2,025 670		8,680 594 143 3 3 1,932 546 309 405	728 175 2 1,872 542 301	939 220 1,674 563 301	1,230 272 6 1,715	554 833	9, 435 1, 769 486 48 2, 365 544 299 239	2,317 654 112 3,020	2,610 777 179	293 123 67 264
Total	191,909	18, 333	11, 216	12,612 1,396	13, 253 641	13, 578 325	13, 274 304	14,442 1,168				

Registered voters, by races, at each general election—Continued. RECAPITULATION.

		Population 1910.		Registered voters.											
	Total.	Male citi- zens of vot- ing age.	1900	1902	1904	1906	1908	1910	1912	1914	1916	Gain 1910 com- pared with 1914.			
Hawaiian. Anglo - Saxon and				8,680	9, 260	9, 635	8, 967	1	•	10,308	10,763	455			
LatinOriental	l			3,786 146		3,723 220			5, 216 534		7,262 956	637 190			
Total			11,216	12,612	13, 253	13, 578	12,274	14,442	15, 185	17,699	18, 981	1, 282			
Increase or decrease: Hawaiisn Anglo-Saxon and Latin					+590 ± 30	– 93	-668 +306	+ 385	+802	+1,409	+ 637				
Oriental		' 		 	+ 31	+ 43		+ 131		+ 232	+ 190 +1,282				

Votes cast for Delegate to Congress at each general election.

Parties.	1900	1902	1904	1908	1908	1910	1912	1914	1916
Republican. Democratic Home Rule Socialist	3, 856 1, 650 4, 083	6, 628 4, 698	6, 833 2, 868 2, 289	7,364 2,884 2,182	5, 698 3, 824 2, 794	8,049 4,503 989	7,023 5,779 346 201	8, 590 2, 609	7,702 5,637
Progressive								610	
Total Votes not east or not counted.	9, 589 1, 627	11,326 1,286	11,990 1,263	12, 430 1, 148	12,316 958	13, 541 901	13,340 1,845	11,809 5,890	13, 339 5, 642

Senators and Representatives, by parties and races, in each legislature.

	Ì	Party.			Race.	
Biennial session.	Repub- lican.	Demo- cratic.	Home Rule.	Ha- waiian.	Portu	Other whites.
enators:						
1901	6	;-	9	10		1
1903 1905	10	1 :	•	7		
1907		2		8		
1909		4	2	š		
1911		ī	2	8		1
1913		٦ <u>۶</u>	2	16		. 19
1915		7		7		
1917tepresentatives:	12	3		8	1	'
1901	9	4	17	23		
1903			iol	23		
1905,	28	1	i	21		
1907		6		24	2	
1909		7	1	21	3	
1911			3	20	3	
1913 1915		11	1 	20 19		
1917	24	الما		20	1	

¹ At the beginning of the session 1913 there were 9 Republican, 4 Democratic, 2 Home Rule, 5 Hawalian, and 10 white senators, but during the session 1 white Republican senator died and a Hawalian Democrat was elected in his place at a special election.

Section 55 of "An act to provide a government for the Territory of Hawaii," approved April 30, 1900 (31 Stat., 141), as amended by an act of Congress approved May 27, 1910 (36 Stat., 4431), provides that—

The legislature at its first regular session after the census enumeration shall be ascertained, and from time to time thereafter, shall reapportion the membership in the senate and house of representatives among the senatorial and representative districts on the basis of the population in each of said districts who are citizens of the Territory.

This provision is mandatory, yet the legislature has refused to act, although bills to that effect have been introduced at nearly every session

Apportionment.

Senators:		Representatives—Continued.	
First district	4	Second district	4
Second district	8	Third district	€
Third district	в	Fourth district	€
Fourth district	2	Fifth district	€
Representatives:		Sixth district	4
First district	4		

LEGISLATURE.

Owing to a severe storm, the greatest in the history of the Territory, it became necessary for the governor to call the legislature together in special session to provide appropriations to rebuild the bridges and approaches thereto in the district of Kohala, Island of Hawaii.

The session opened on May 14, 1918, and completed its labors on

May 31.

During the session, in addition to passing the legislation for which it was especially called, the legislature acted upon several other projects very vital to the welfare of the Territory, among which might be mentioned the following:

Act 6: Permitting one political subdivison of the Territory to contract to do work for another subdivision or for the Federal Government at actual cost.

Act 13: Authorizing the food commission to increase, regulate, and control the food supplies of the Territory of Hawaii.

Act. 14: To provide for the draining and filling of certain lands at Waikiki, Ionolulu.

Act 16: To provide for a municipal market for the city of Honolulu.

Act 18: Creating a commission to investigate feeble-mindedness in the Territory of Hawaii.

Act 19: Defining disloyalty and providing punishment therefor.

Act 24: To provide for an adequate food supply for the inhabitants of the Territory of Hawaii, for the purpose of which the sum of \$200,000 is placed in a revolving fund to be at the disposal of the governor.

Act 25: Creating a Territorial market commission, which is to bring the pro-

ducer and consumer more closely together.

Act 26: Providing a contingent fund of \$100,000.

One of the problems which has been bothering the people of the Territory for a long time past is how to make the best use of public lands whose leases either have expired or are about to expire. This question was considered at the session but nothing practical was accomplished regarding it.

Work of legislatures.

Year.	Days in session.	Cost of session.1	Cost per day.	Cost per bill passed.	Bills intro- duced.	Bills passed.	Bills vetoed.2	Vetoes sus- tained,
1901	116 12 120 12 103 60 60 60	\$94, 654. 94 4, 028. 70 90, 943. 94 11, 079. 68 62, 580. 06 57, 258. 35 58, 225. 02 11, 636. 61 70, 245. 84	757. 86 605. 57 954. 31 970. 42 1, 170. 75	\$3,505.73 837.96 563.80 406.08 383.06 415.66	342 415 24 387 361 388 7 410	27 106 14 111 141 152 2 169	3 8 1 22 26 8	2 7 1 14 14 7
1913 1915 1917 1918 4	60 60 60 15	83,495.75 71,478.67 84,087.23 16,367.23	1,391.59 1,191.31 1,401.45 1,091.15	491.15 316.28 348.91 584.54	466 498 607 64	170 226 241 28	6 3 3 1	3 2 0

Special session of the senate 4 Special session of the legislature.

COUNTY AND CITY AND COUNTY GOVERNMENTS.

Local governments in Hawaii were first established on July 1, 1905, the Territory being divided into four counties. On January 1, 1909, the county comprising the Island of Oahu was converted into a city and county, known as the City and County of Honolulu, with The leper settlement on the Island of Molokai forms a fifth county, controlled by the Territorial board of health.

Following is given the income of the various counties for the fiscal year ended June 30, 1918, showing an increase of \$431,136.43 over the previous fiscal period:

Income of counties, fiscal year ended June 30, 1918.

.	Collected by for cour		Collected by counties.					
Counties.	General taxes.	Road tax.	License fees.	Fines and costs.	Water and sewerrates.	Miscella- neous.	Total.	
Honolulu (Oahu) Hawaii Maui Kauai	\$1,300,898.69 647,087.08 402,941.61 263,039.20	68, 436. 08 47, 960. 96	74,065.90 30,683.95	35,570.67 19,188.15	18,728.01 19,229.12	30, 342. 13	540, 075. 4	
Total, 1918 Total, 1917	2,613,966.58 2,049,825.89				286, 615. 49 288, 441. 45	275, 452.00 477, 740.77	3, 872, 239.1 3, 441, 102.7	
Increase Decrease	564, 640. 69	55, 531. 76	14, 995. 79	20,074.50	1,825.96	202, 288. 77	431, 136. 4	

Includes \$133,518.03 of improvement assessments.

FINANCES.

BONDED INDEBTEDNESS.

By the provisions of section 55 (31 Stat., 141), as amended by Statutes 36, page 443, the Territory is permitted to issue bonds not to exceed 7 per cent on the total assessed value of property in the Territory, but not more than 1 per cent in any one year.

¹ Part of the expenses of the last five regular sessions were paid out of the Federal appropriations, as follows: 1907, \$27,349.04; 1909, \$29,939.26; 1911, \$28,938.38; 1913, \$30,000; 1915, \$30,000; 1917, \$27,409.14.

³ The vetoes in the table do not include vetoes of items in appropriation bills or pocket vetoes. The record as to items in appropriations bills is as follows: In 1903, 48 vetoes, all sustained; in 1905, 42 vetoes, 35 sustained; in 1907, 13 vetoes, 3 sustained: in 1909, 10 vetoes, 8 sustained; in 1911, 3 vetoes, 1 sustained: in 1913, 3 vetoes, all sustained; in 1915, none; in 1917, 1 veto, overridden. The record as to pocket vetoes is as follows: In 1904, 12; in 1907, 13; in 1909, 17; in 1911, 6; in 1913, 9, in 1915, 4, in 1917, 10.

Includes \$344,780.23 from sale of bonds and improvement assessments

The last completed assessment amounts to \$235,650,967, therefore the borrowing limit is \$16,495,567.69.

The outstanding bond issue at present amounts to \$8,749,000.

The legislature at its 1917 session provided for a bond issue of approximately \$2,500,000, of which there has been issued \$1,500,000.

Date of issue.	Term in years.	Interest.	Sale price.	Per- centage basis.	Aggregate out- standing.	Date due.	Where sold.
Oct. 4, 1905		Per cent. 4 31 32 4 4 4 4 4 30, 1918	101. 375 98 125 98. 150 98. 250 101. 5875 100. 5887 100. 01 100. 00 98. 04	3.70 3.66 3.66 3.65 3.88 3.985 4.00 4.00	\$270,000 750,000 294,000 000,000 1,500,000 1,430,000 1,430,000 1,055,000	Oct. 4,1920 Jan. 2,1921 Oct. 1,1922 Oct. 1,1924 Aug. 1,1941 Sept. 3,1942 Sept. 15,1944 May 15,1946 Aug. 1,1947	Honolulu. New York. Honolulu. Do. New York. Do. New York and Honolulu. Do. Do.

¹ Total issue was \$1,500,000 and up to June 30, 1918, \$1,055,000 was sold.

RECEIPTS AND DISBURSEMENTS.

The greater part of the county revenues are collected by the Territory and turned over to the various counties, while, in turn, the Territory receives back from them the cost of assessing and collecting taxes and the interest and sinking fund on bonds issued by the Territory for the benefit of the counties.

Cash on hand and floating indebtedness, general account, at end of each fiscal year since organization of Territorial Government.

Fiscal years.	Cash on hand.	Outstanding warrants.	Net floating indebted-ness.	Net cash available for ensuing year.
1901	287, 131. 30 73, 151. 63 56, 613. 29 69, 408. 49 335, 331. 37 348, 216. 51 391, 737. 19 134, 759. 21 845, 218. 51 822, 282. 07 690, 550. 70 716, 729. 60 366, 001. 24 464, 040. 43 539, 388. 71	56, 008. 61 43, 955. 84 49, 162. 62 51, 306. 23 95, 102. 12	10, 296. 57 167, 531. 79 652, 401. 02 544, 018. 40 35, 959. 46	\$263, 103. 41 313, 476. 02 165, 945. 48 686, 970. 96 660, 304. 40 621, 400. 04 600, 720. 93 322, 045. 40 414, 877. 31 488, 082. 47 794, 406. 30

Treasury cash balances, all accounts, at end of fiscal years 1914, 1915, 1916, 1917, and 1918.

	1914	1915	1916	1917	1918
Current revenues:	****		9500 000 Ft	200 500 40	ATT - P. P. AT
GeneralImmigration and conserva-	\$366,001.24	\$464,040-43	\$539,388.71	\$889, 508. 42	\$711,517.2
tion	284, 812. 18	12, 810, 17	29.23		
Immigration	. 	l	101, 189. 27	103,217.98	105, 141. 17 210, 985. 9
Sanitation fund	217, 539. 31	206, 048. 33	151,967.43	134, 382. 01	210, 985. 9
Honolulu water and sewer			•		•
WorksSchool fund	148.10 66,698.70	82, 653. 79	94, 573. 24	85, 338, 37	158, 960. 9
Sinking fund	107, 431. 45	45, 192. 74	55, 217. 54	78,410.95	76, 729. 0
Special land sales	96, 144. 47	126, 373, 05	157, 185, 59	136, 261. 17	215, 260. 1
Miscellaneous special funds	37, 974. 12	126,373.05 71,338.10	157, 185. 59 91, 825. 99	84, 189. 97	125, 589. 8
Total	1, 176, 749. 57	1,008,456.61	1, 191, 377. 00	1.511.308.87	1, 604, 134. 20
Loan fund	109,566.00	1,128,455.89	998, 653. 48	1,511,308.87 566,330.42	1,043,462.9
Grand total	1, 286, 315. 57	2, 136, 912. 50	2, 190, 030. 48	2,077,639.29	2,647,597.2

Receipts and disbursements, general account, fiscal year ended June 30, 1918. RECEIPTS.

Taxes:		
Real property	\$1,967,550.23	
Personal property		
Interest and penalties	12, 181, 75	
Specific property (autos, carriages, etc.)	205, 901, 57	
Income, general	794, 427, 22	
Income, special	343, 121, 14	
Personal, (poll, school, road)		
20100101, (2011, 2011001, 10110, 111111111111111111		\$5, 113, 056, 68
		• • •
Insurance		48, 718. 7 0
Inheritance		76, 676. 75
Documentary stamps		1, 325. 00
Land sales		271, 475. 01
Land revenue (rents, etc.)		295, 956. 78
Harbor, wharf, and pilot revenues		139, 295. 16
Recording fees		23, 464, 00
Fines and costs		
Support of United States prisoners		6,767. 45
Interest on bank deposits (exclusive of loan)		21, 611, 81
Miscellaneous		
	•	
Total receipts		6, 236, 009. 32
Transferred from special funds		
Paid by counties	859, 214. 12	
•		972, 038. 4 1
	•	7, 208, 047, 73
Cash balance July 1, 1917		889, 508, 42
	_	8, 097, 556. 15

DISBURSEMENTS.

Legislature	\$17, 742, 98	
Elections	1, 206, 17	
Incidentals, governor's office	441. 48	!
Governor's and secretary's office	11, 297, 90	
Library of Hawaii	17, 795, 97	
Archives bureau	5, 784, 89	
National Guard and Naval Militia	101, 352, 03	
Expenses, congressional visitors	27, 417. 40	
Expenses, food commission	16, 099, 75	
Promotion	6, 000, 00	
Pensions	13, 158, 33	
Auditing department	14, 226, 50	
Treasury department	22, 030, 01	
Tax bureau	94, 111, 53	
College of Hawaii	33, 956, 37	
Public works department.	94, 338. 04	
Harbor commission		
	168, 761. 22	
Public lands department	68, 873. 13	
Survey department	28, 782. 96	
Expenses land board	1, 110. 83	
Public health department	535, 300. 08	
Judiciary department	16, 181. 56	
Attorney general's department	16, 791. 63	
Prison	104, 867. 60	
Record bureau	24, 834. 53	
Hilo public library	3, 562. 36	
Improvements, Kauai farm and sanitarium	9, 498. 69	
Hawaiian dictionary	2, 510. 00	
Industrial accident boards	5, 592. 98	
Agriculture and forestry		
Immigration	6, 719. 20	
Relief, T. F. farm	13, 818. 25	
Decisions United States district court	143. 72	
Miscellaneous	1, 216. 50	
Establishment and maintenance school for defec-		
tive children	4, 725. 95	
Water investigation	18, 091. 04	
Industrial schools	87, 683. 01	
Expenses entertainment	4, 573. 68	
Employing temporary substitutes	2, 188. 95	
Expenses Waikiki lands commission	56. 75	
Protection government property	86, 925. 15	
Advance to school fund for pay of teachers	50, 000. 00	
Reimbursing city and county of Honolulu for		
street improvements	26, 980. 65	
Funeral expenses Queen Liliuokalani	8, 526. 13	
		\$1,854,259.22
Interest on public debt		819, 909. 09

819, 909. 09

Transferred to special accounts:			
Sinking fund	\$178.	318. 6	ısı
Land purchases		706. 0	
Homestead roads		089. 8	
Surveying and opening homesteads		000.	
Registering land assurance		345. 7	
Industrial schools		424. 8	
College of Hawaii		130. 8	
Sanitation fund		748. 5	
School fund	1, 478,		
Public utilities fund		114. 4	
Armory boards	20,	397. 7	
Kalaupapa store revolving fund	36	254. 5	
Marketing division revolving fund		269. 3	
Insurance fund		998. 7	
Homesteads' improvements		008. 8	
Teachers' pension fund		335. 1	
Immigration fund		923. 1	
Lahainaiuna School		297. 7	
Forest reserve fund		348. 5	
Kaupakalua land sales		370. 6	•
Roads, Waiakea, Hilo		307. 8	
Ponahwai lots roads		794. 0	
Mechanical, live stock, and horticultural fairs		972. 8	
Sanitorium, insane asylum		065. 6	
Relief of George A. McEldowney		178. 2	
Lener of George A. McMaowney		110. 2	- \$2, 34 0, 619. 09
Paid to counties:			- \$2, 340, 018. US
City and county of Honolulu	1, 461,	180 1	9
County of Hawaii		523. 1	
County of Maui		902. 5	
County of Kauai		672. 2	
County of Kauai	200,	014.2	
_			- 2, 926, 256. 05
			7 441 049 4F
Outstanding manager Tong 00 1017			7, 441, 043. 45
Outstanding warrants June 30, 1917			_ 95, 102, 12
			7 FOO 14F FF
Chamber and belong	P11	E47 0	7, 536, 145. 57
Current cash balance		517. 2	
Outstanding warrants June 30, 1918	190,	106. 6	
-			- 561, 410. 58
			0 007 550 15
			8, 097, 556. 15

SPECIAL FUNDS.

Statement of all special funds for fiscal year ended June 30, 1918.

		Reco	eipts.	
Funds.	Net cash, July 1, 1917.	Receipts.	Transfers from other accounts.	Total available.
School	\$61, 298. 48 134, 351. 23	\$1,053,218.08 3,748.52	\$475,000.00 100,000.00	\$1,589,516.56 238,099.78
Sinking	78, 410. 95 18. 60	178,318.09		256, 729. 0 5, 018. 60
Cahu Hawaii	55,503,78	7,949.42 87.681.74	35. 10	13, 249. 94 93, 185. 53
Maui Kauai	4, 991. 65	87, 681. 74 8, 695. 22 14, 318. 61	1, 101. 68 3, 354. 10	9, 788. 50 18, 133. 60 3, 854. 10
Kawaihau Kaneohe	1,320,92	2,033.18	0,001.10	3,854. 10 978. 0
Kaimu Kujaha	1.586.47			1 596 4
PiiholoPuukapu	1, 218, 29	910.00		1,218.24
Residence tract roads: Kawailoa	1 .			9,000.00
Kuliouou	6, 881, 61	1,453.00		3, 892. 31 8, 834. 61
Auwaiolimu	2.584.01	2,881.75		2,074.2 5,465.7
Waioli	862, 83	8,007.35	1	862.8
Kaneohe	2,981.00 .53	1,572.36		2,981.0 1,572.8
Oahu	8,384.65 8,934.10	158, 834. 05 28, 872. 00	· · · · · · · · · · · · · · · · · · ·	167, 218, 70
Maui	1,044,00	l		37, 806. 10 1, 044. 0
I shefme lune school	16 507 10	4,780.89 2,297.73		4,789.6 18,824.8
Road, Napoopoo, South Kona College of Hawaii scholarship account. Girls' Industrial school. Boys' industrial school.		350.00	6,000.00	6,000.0 350.0
Boys' industrial school.	174.33 17.78	794. 06 2, 630. 32		2,648.1
Forestry preservation Marketing bureau Land registration assurance Homesteaders' improvements	3,695.25 571.83	348.50		4,043.7 571.8
Homesteaders' improvements	6,612.82 340.00	1,345.79 3,008.82		7,958.6 3,348.8
Kaupakalua land sales. Public utilities commission	6,991.48	1,370.62 13,114.48		1,370.65 20,105.96
Armory boards. Kalaupapa store.		397. 75 36, 254. 58		812. 19 36, 326. 00 68, 170. 12
Territoria insurance fund.	9,900.75 23,057.34 103,217.98	91 QQR 70	100,000.00	45, 056. 13
Teachers' pension fund	103, 217, 98 10, 884, 93	1,923.19 7,835.19 2,807.80		205, 141, 11 18, 220, 1
Kaisupapa store Marketing division revolving fund. Territoria linsurance fund Immigration fund Teachers' pension fund Roads, Walakea, Hilo Filling lands and proposed roadway, Ponohawai, Hilo Santfarium Insane Asubum	341,02	ł		2,648.8
Sanitarium, Insane Asylum	5,000.00	1.065.65	•••••••	5,000.00 1,065.60 2,794.00
Sanitarium, Insane Asylum. Ponohawai lots. Mechanical, live stock, and horticultural fair. Relief, Geo. A. McEldowney.		2,794.00 42,972.80 178.21	6,000.00	2,794.00 48,972.8 178.2
Total special funds.		1,709,619.09	691, 490, 88	2,993,083.9
Loan fund	552, 430. 06 794, 406. 30	1,052,550.80 6,595,223.44	612, 824, 29	1,604,980.8 8,002,454.0
Total, all funds		9, 357, 393. 33	1,304,315.17	12,600,518.8

Statement of all special funds for Asoal year ended June 30, 1918-Continued.

′	Expen	ditures.	,	ļ
Funds.	Expendi- tures.	Transfers to general and other special accounts.	Total ex- penditures.	Net cash, June 30, 1918
School	\$995, 136. 95	\$475,000.00	\$1,470,136.95	\$119,379,6
Sanitation	27, 192, 07		27, 192, 07	\$119,379.6 210,907.6
Staking Surveying and opening homesteads	180,000.00	• • • • • • • • • • • • • • • • • • • •	180,000.00	76,729.0
Surveying and opening nomesteads	2, 720. 30	• • • • • • • • • • • • • • • • • • • •	2,720.36	2,298.2
Oahu		13, 022, 29	13, 022, 29	227.6
Hawaii	1,072.40		1,072.40	92, 113. 1
Maui		9,468,00	9,468.00	l 32 0.5
Kauai		10,800.00	10,800.00	7,333.6
Kawaihau Kaneohe Kaimu		3,354.10	3,354.10	978.0
Kaimu				1,586.4
Triiche		1,991.68	1,991.68	
Pilholo	41. 24	10.00	51.24	1,167.0
Pitholo	8, 542. 05	· · · · · · · · · · · · · · · · · · ·	8,542.05	457.9
Kawailoa				3,892.3
Kulionon	·	l 95.10	35, 10	8, 299. 5
Olaa	1,791.10		1,791.10	283. i
Auwaiolimu	1,075.50		1,075.50	4,390.2
Olaa Auwalolimu Makiki round top. Waloli	8, 539. 55		8, 539. 55	6,075.9
Waloli				2,981.0
Kaneohe	4.50	1,400,00	1.404.50	168.3
Land purchases:			1,102.00	1
Oahu	121, 465. 65	6,000.00	121, 465. 65	45,753.0
Hawaii		6,000.00	6,000.00	31,806.1
Hawaii Maui College of Hawaii Lahainaluna school	4 646 70		4,646.72	1,044.0
Lollege of Hawaii	10 480 02		10,469.92	8,354.9
Lahainaluna school Road, Napoopoo, South Kona	2,714,25		2,714.25	3,285.
College of Hiswaii scholafshid account	300.00		300,00	50.6
Girls ⁹ industrial school	926, 27			42.1
Boys' industrial school	2, 127. 17		2, 127. 17	520.9
Forestry preservation Marketing bureau	19.46	•••••••	19.46	4,024.2 571.8
Land registration assurance				7,958.6
Homesteaders' improvements	2,147.82		2,147.82	1,201.0
Homesteaders' improvements Kaupakalua land sales Public utilities commission	201.00		201.00	1,169.6
Public utilities commission	12, 196. 23		12, 196. 23	1,169.6 7,909.7
A PIM OF IT DOG TYPE	1 677 OK		633.95	178.2
Kalaupapa store. Marketing division revolving fund Territoria insurance fund	36, 323. 90 63, 436. 44		36, 323. 90 63, 436. 44	2.1 4,733.6
Territoria i neurance fund	22,633.73	• • • • • • • • • • • • • • • • • • • •	00 400 70	22, 422. 4
Immigration fund	22,000.10	100,000,00	100,000.00	105, 141.
Teachers' pension fund	2,200.60		2,200.60	16, 019. 5
Territorial insurance fund Immigration fund Teachers' pension fund Roads, Walakea, Hilo Filling lands and proposed roadway, Pono- hawai, Hilo Sanifarium, insane asylum Ponohawai lets		2, 234. 00	2,234.00	414.8
Filling lands and proposed roadway, Pono-				E 000 0
Reniterium intendesvium	************	• • • • • • • • • • • • • • • • • • • •		5,000.0
Ponohawai lots				1,065.6 2,794.0
Mechanical, live stock, and horticultural fair Relief, Geo. A. McEldowney	44,271.30		44,271.30	4,70L.5
Relief, Geo. A. McEldowney	178, 21		178, 21	
Total, special funds				914 760 4
Loan fund	1,553,008,34 585,618,52	623, 315. 17	2, 176, 323, 51 585, 618, 52	816, 760. 4 1, 019, 362. 3
Loan fund	5, 100, 424, 36	2,340,619.09	7, 441, 043, 45	561,410.5
General lung				
Total, all funds	7, 239, 051, 22	2, 963, 934. 26	10, 202, 985, 48	2, 397, 533. 3

TAXES.

Since 1901 the Territory has had in successful operation an income tax of 2 per cent on personal incomes of more than \$1,500, and since 1909 an additional tax on all incomes over \$4,000. This latter act was for only a two-year period but has been reenacted by each succeeding legislature. These taxes go to the Territorial government.

The county governments are supported by the property tax, the rates varying in the several counties. Up to 1917 the counties were

allowed two-thirds of 1 per cent for their general expenses and public improvements. The legislature then amended the law to allow them a full 1 per cent. The balance of the tax rate above this 1 per cent is for the purpose of raising money for interest and sinking fund on bonds, pay of school teachers and maintenance of schools, etc.

The bulk of this property tax is paid by corporations, and the method of assessment of these companies, known as "enterprise for profit basis," is somewhat unique. The law provides "that in all cases where real and personal property, or several kinds or parcels of real or personal property, respectively, are combined and made the basis of an enterprise for profit the enterprise for profit shall be assessed as a whole on its fair and reasonable aggregate value. In estimating the aggregate value of each such enterprise for profit there shall be taken into consideration the net profits made by the same, also the gross receipts and actual running expenses; and where it is a company being a corporation whose stock is quoted in the market the market price thereof, as well as all other facts and considerations which reasonably and fairly bear upon such valuation."

This law has been adjudicated by the Territorial supreme court many times, so that our assessors in making their assessments are

guided by the act as thus interpreted.

In making these assessments it is usual to capitalize the profits of four years at different rates per cent according to the conditions affecting the particular enterprise. For instance, if a plantation owns its land in fee simple, the soil being fertile and having abundant water supply, the rate of capitalization is a low one. The rate is increased as the conditions appear less nearly perfect. Where the profits are large the enterprise can well afford to pay the larger tax, as when the profits are smaller the assessed value is automatically reduced. In 1913 the sugar profits were unusually small, which accounts for the falling off of the total assessment in the Territory in 1914.

The inheritance and insurance taxes go to the Territory for general purposes. The inheritance tax rates on direct inheritances in excess of \$5,000 by persons other than aliens and nonresidents of the United States are as follows:

	Per cent.
On amounts between \$5,000 and \$20,000	_ 14
On amounts between \$20,000 and \$50,000	$\bar{2}$
On amounts between \$50,000 and \$100,000	_ 21
On amounts between \$100,000 and \$250,000	
On amounts over \$250,000	

And those on collateral inheritances in excess of \$500 by persons other than aliens and nonresidents of the United States are as follows:

	Per cent.
On amounts between \$500 and \$5,000	_ 8
On amounts between \$5,000 and \$20,000	_ 5
On amounts between \$20,000 and \$50,000.	_ 51
On amounts between \$50,000 and \$100,000	_ 6
On amounts over \$100,000	_ 6}

The rate of inheritances by aliens or nonresidents of the United States in excess of \$500 is 10 per cent.

Tax rates.

Year.	First division, city and county of Honolulu.	Second division, counties of Maui and Molokai.	Third division, county of Hawaii.	Fourth division, county of Kausi.
1912 1913 1914 1915 1916 1917	1. 26) 1. 273 1. 21	1. 15 1. 10 1. 29 1. 44 1. 332 1. 26 1. 50	1. 18 1. 23 1. 38 1. 52½ 1. 42 1. 30 1. 865	1. 16 1. 16 1. 26 1. 384 1. 415 1. 35 1. 81

Sources and distribution of all revenues of the Territory and the counties, fiscal year ended June 30, 1918.

	Collected by the Territory.							
Distribution.	General property taxes.	Specific property taxes.	Income taxes.	Personal taxes.	Inherit- ance taxes.	Insur- ance taxes.	Miscella- neous revenues.	
Territory—General fund Territory, as agent for counties:	\$47,014.95		\$1,137,548.36		\$ 76, 676. 75	\$48,718.70	\$997, 557. 1	
Assessing and collect- ing taxes	99, 390. 00						••••••	
fund	149, 456. 54						••••	
Schools: General support under Territory Buildings and grounds	891, 490. 54			\$1 10,746.78				
under counties	280, 937. 50						•••••	
Counties: General fund Roads	2,022,102.15	\$6,305.23 199,596.34		55, 775. 16 112, 693. 13				
Total	3, 490, 391. 68	205, 901. 57	1, 137, 548. 36	279, 215. 07	76, 676. 75	48, 718. 70	997, 557. 1	

		Collected by the counties.						
Distribution.	License fees.	Fines and costs.	Water and sewer rates.	Miscella- neous revenues.	Sale of bonds and improve- ment as- sessments.	Total.		
Territory—General fund						\$2, 307, 515. 95 99, 390. 00 149, 456. 54		
General support under Terri- tory Buildings and grounds under counties						1,002,237.32 280,937.58		
Counties: General fund	\$26 5,013.12	\$ 118, 902. 51		\$ 275,452.00		3, 163, 683. 69 312, 289. 47		
Total	265, 013. 12	118, 902. 51	286, 615. 49	275, 452. 00	133, 518. 03	7, 315, 510. 47		

Taxes collected for the year ended June 30, 1918, by races, etc., of taxpayers, inclusive of interest, penalties, and costs.

Kind of taxes, etc.	Anglo- Saxons.	Hawai- ians.	Portu- guese and Spanish.	Chinese.	Japanese.	Total.
Real property: Corporations, firms, etc Other than corporations, firms,	\$1,217,273.5 6	\$62,302.36	\$2,566.02	\$ 10, 770. 85	\$8, 638. 68	\$1,301,551.47
etc	347, 819. 37	184, 920. 95	74,091.27	40,893.45	25, 515. 18	673, 240. 22
Personal property: Corporations, firms, etc Other than corporations, firms,	1,308,183.88	4, 804. 05	7, 181. 50	28, 505. 80	17, 521. 77	1,366,197.00
etc	56, 402. 85	18, 456. 26	11, 255. 23	19, 124. 48	41, 164. 17	146, 402. 99
carriages, etc	131, 493. 24 38, 032. 30				37, 770. 57 138, 469. 67	
Corporations, firms, etc	645, 844. 60	4, 327. 95	891.70	1,571.59	3,753.29	656, 389. 13
etc	115, 764. 44	11,790.24	4,755.27	1,808.24	3,919.90	138, 038. 09
Corporations, firms, etc	310, 088. 61	2, 678. 50	593.45	797.87	2,733.97	316, 892. 40
Other than corporations, firms, etc	21, 252. 16	3,388.21	948.87	220.95	418. 55	26, 228. 74
Total	4, 192, 155. 01	327, 191. 92	176, 178. 22	137, 625. 78	279, 905. 75	5, 113, 056. 68

Taxes, by years, ended June 30, since organization of Territorial government.1

Fiscal year.	Real property.	Personal property.	Specific property.	Personal.	Income 2 general.
1914 1915 1916 1917	\$444, 059. 63 532, 637. 09 560, 456. 31 618, 890. 81 609, 343. 72 664, 737. 94 640, 051. 42 668, 721. 89 709, 943. 35 766, 429. 68 893, 331. 32 1, 068, 267. 52 1, 200, 618. 75 1, 378, 454. 92 1, 547, 872. 50 1, 967, 550. 23	\$490, 392.66 571, 248.66 592, 325.37 607, 589.85 570, 654.55 928, 941.55 631, 326.36 635, 265.88 678, 886.44 720, 252.66 733, 806.44 821, 518.96 915, 470.55 868, 613.55 928, 231.88 1, 092, 683.22 1, 224, 552.07 1, 510, 659.76	90 20, 412.19 72 22, 591.60 52 22, 998.80 55 23, 543.50 63 39, 644.40 64, 554.50 64, 554.50 64, 554.50 64, 626.21 66, 626.21 67, 626.21 68,	\$249, 604. 00 231, 485. 00 231, 485. 00 240, 736. 00 240, 736. 00 249, 990. 00 243, 955. 00 239, 001. 00 244, 832. 00 245, 520. 00 243, 683. 00 241, 915. 00 243, 058. 00 242, 307. 30 246, 246. 256. 5257, 890. 00 256, 636. 00 255, 536. 257, 432. 65 279, 215. 07	\$286, 630. 20 202, 526, 44 170, 511. 71 155, 978. 87 391, 366. 65 187, 687. 91 286, 241. 74 389, 500. 44 421, 375. 68 488, 415. 96 513, 384. 40 421, 375. 68 513, 384. 40 513, 384. 40 513, 384. 40 421, 275. 68 513, 384. 40 421, 275. 68 513, 384. 40 421, 375. 68 513, 384. 40 421, 375. 68 513, 384. 40 421, 275. 68 513, 384. 40 421, 275. 68 513, 384. 40 513,
Fiscal year.	Income, special.	Penalties, costs, and interest. ³	Inheritance.	Insurance.	Total.
1901 1902 1903 1904 1905 1906 1906 1907 1908 1909 1910 1910 1911 1912 1913 1914 1915 1916 1917		\$9, 294. 58 \$11, 847. 92 13, 385. 29 16, 509. 18 13, 703. 89 121, 435. 83 17, 697. 93 19, 137. 76 17, 262. 86 14, 655. 92 11, 158. 27 9, 640. 85 15, 107. 43 14, 705. 43 12, 181. 75	\$939. 29 6, 074. 34 1, 393. 33 70. 00 6, 271. 71 5, 879. 69 8, 789. 74 21, 430. 05 17, 011. 88 180, 153. 11 38, 383. 59 187, 974. 95 19, 421. 54 30, 634. 00 53, 543. 58 171, 303. 05 19, 852. 44 76, 676. 75	\$3, 223. 65 3, 346. 00 4, 885. 11 4, 623. 38 6, 883. 59 8, 780. 61 11, 202. 74 13, 978. 33 26, 564. 55 20, 141. 87 21, 173. 76 25, 420. 95 30, 985. 34 30, 168. 92 33, 321. 18 38, 357. 87 48, 718. 70	\$1, 216, 265. 20 1, 664, 181. 43 1, 652, 406. 45 1, 681, 299. 49 1, 689, 175. 12 2, 601, 930. 53 1, 796, 825. 92 1, 880, 847. 83 2, 980, 635. 674. 58 2, 667, 175. 644. 99 3, 256, 574. 58 2, 988, 447. 70 3, 108, 785. 52 3, 927, 366. 50 4, 441, 067. 11 5, 238, 452. 13

For purpose of comparison, the real and personal property and income taxes for 1906 should be about one-third less, as they include an extra half year's taxes.
 Including penalties, costs, and interest.
 Except on income taxes.



Assessments of real and personal property, by fiscal years, since organization of Territorial government.

Fiscal year.	Real property.	Personal property.	Total.	Fiscal year.	Real property.	Personal property.	Total.
1901 1902 1903 1904 1905 1906 1907 1908	\$58, 547, 890 60, 591, 587 66, 137, 075 63, 516, 979 67, 509, 036 66, 908, 337 64, 901, 609 66, 936, 032 68, 440, 615	\$62, 625, 038 62, 319, 216 63, 675, 607 60, 381, 525 66, 415, 064 64, 266, 678 66, 149, 614 65, 354, 150 70, 470, 206	\$121, 172, 928 122, 910, 803 129, 812, 682 123, 898, 504 133, 924, 100 131, 175, 015 131, 051, 223 132, 290, 182 138, 910, 820	1911 1912 1913 1914 1915 1916	77, 887, 826 90, 889, 057 93, 853, 810 91, 050, 895 99, 186, 323 113, 922, 014 129, 340, 001	\$74, 475, 944 76, 696, 206 85, 945, 744 81, 347, 351 70, 136, 331 77, 414, 899 93, 048, 215 102, 580, 918 101, 107, 647	\$150, 268, 467 154, 584, 032 176, 834, 801 175, 201, 161 161, 187, 226 176, 601, 222 206, 970, 229 231, 920, 919 235, 650, 967

Assessable values of real and personal property, by taxation divisions, since organization of Territorial government.

	First divisio county of		Second division, county of Maui.		
Year.	Real property.	Personal property.	Real property.	Personal property.	
1901	\$31, 606, 490 32, 648, 843 34, 553, 304 32, 133, 196 31, 625, 579 31, 640, 862 31, 477, 133 31, 159, 916 32, 292, 558 34, 367, 440 35, 643, 725 40, 448, 403 46, 559, 481 49, 540, 725 53, 574, 531 57, 957, 135 66, 528, 200	\$32, 851, 799 33, 233, 063 38, 547, 182 37, 451, 555 38, 640, 381, 36, 792, 373 36, 738, 416 36, 072, 436 36, 072, 436 41, 198, 709 43, 977, 046 41, 998, 673 43, 832, 979 49, 381, 175	\$10, 620, 086 10, 672, 459 10, 039, 514 11, 046, 619 13, 751, 978 13, 751, 567 12, 377, 082 14, 045, 727 13, 585, 341 17, 775, 146 18, 216, 528 21, 458, 927 18, 238, 556 16, 142, 677 18, 278, 238 20, 911, 553 24, 245, 993 23, 896, 365	\$5, 178, 457 5, 230, 831 5, 889, 519 5, 419, 616 6, 967, 738 7, 375, 191 9, 688, 625 8, 256, 123 10, 799, 788 10, 296, 519 11, 638, 201 12, 820, 899 9, 505, 254 11, 477, 187 16, 15, 607 19, 467, 187 16, 482, 894	

		sion, county awaii.	Fourth divi		
Year.	Real property.	Personal property.	Real property.	Personal property.	Total
1901 1902 1903 1904 1905 1906 1906 1907 1909 1910 1911 1911 1912 1913	11, 408, 352 16, 135, 131 14, 916, 221 15, 179, 975 14, 948, 462 14, 410, 434 15, 208, 203 16, 831, 448 10, 751, 679 20, 303, 521 17, 484, 322 19, 108, 813	\$16, 098, 569 10, 150, 943 13, 342, 340 11, 833, 177 12, 640, 727 12, 036, 906 11, 759, 984 12, 590, 260 13, 164, 880 14, 117, 083 14, 117, 083 14, 117, 180, 835 17, 180, 835 13, 754, 986	\$4,965,342 5,017,715 5,409,126 5,421,043 6,557,446 6,536,980 6,496,020 6,544,513 6,818,489 7,275,813 8,280,048 8,632,252 7,883,171 8,224,441	8, 548, 587 6, 996, 566 5, 677, 177 8, 166, 218 8, 961, 708 7, 962, 589 8, 433, 322 8, 246, 365 8, 956, 202 9, 442, 211 10, 441, 524 9, 346, 952 7, 641, 224	\$121, 172, 928 \$122, 910, 803 129, 812, 682 123, 896, 504 133, 924, 100 131, 175, 015 131, 051, 223 132, 290, 182 138, 910, 920 150, 268, 467 154, 584, 602 175, 201, 161 161, 187, 266
1916. 1917. 1918.	1 27 945 X5X	20,521,689 22,238,663 23,807,933	10, 080, 005 10, 619, 960 10, 794, 290	12,077,850 11,799,418 11,489,645	206, 970, 229 231, 920, 919 235, 650, 967

Assessed value of real and personal property for 1918, by taxation divisions.

Taxation divisions.	Real property.	Personal property.	Total, 1918.	Total, 1917.	Increase (+) or decrease (-), 1918.
First, city and county of Honolulu Second, county of Maul Third, county of Hawali Fourth, county of Kauai	\$70, 246, 305 23, 869, 365 29, 633, 360 10, 794, 290	\$49, 381, 175 16, 428, 894 23, 807, 933 11, 489, 645	\$119,627,480 40,298,259 53,441,293 22,283,935	\$115,603,850 43,713,180 50,184,511 22,419,378	Per cent. +3.48 -7.81 +6.48 60
Total for the Territory	134, 543, 320	101, 107, 647	235, 650, 967	231, 920, 919	+1.17

Assessed value of real and personal property for 1918, by races, etc., of taxpayers.

	Real	prop erty.	Persons	al property.		.
Taxpayers.	Number of tax- payers.	Assessed value.	Number of tax- payers.	Assessed value.	Total assessed value.	Per- cent- age.
Corporations, firms, etc	817 3,379 5,921 1,074 2,511 1,056	\$88, 643, 557 24, 306, 847 11, 814, 622 2, 801, 484 5, 331, 088 1, 645, 722	1,044 2,208 1,977 1,500 1,539 3,336	\$88,665,035 3,976,871 1,798,342 1,578,635 821,069 4,267,695	\$177, 308, 592 28, 283, 718 13, 612, 964 4, 380, 119 6, 152, 157. 5, 913, 417	76. 24 12. 00 5. 78 1. 86 2. 61 2. 51
Total	14,758	134, 543, 320	11,694	101, 107, 647	235, 650, 967	100.00

Cost of assessing and collecting taxes, years ended June 30.1

Fiscal year.	Actual cost.	Percentage of amount collected.	Fiscal year.	Actual cost.	Percentage of amount collected.
1901 1902 1903 1904 1905 1905 1906 1907 1908	\$54,996.06 63,300.33 70,194.46 71,362.16 59,665.71 73,350.92 66,711.41 67,160.18 62,768.42	4. 52 3. 81 4. 25 4. 24 3. 66 22. 83 3. 78 3. 64 8. 08	1910 1911 1912 1913 1914 1915 1916 1917	\$65, 532-11 63, 516. 59 73, 520. 67 78, 066. 02 81, 352. 68 89, 789. 99 85, 480. 08 92, 719. 92 94, 111. 53	2. 56 2. 44 2. 48 2. 48 2. 97 2. 97 2. 29 2. 12 1. 84

CORPORATIONS.

During the last fiscal year a total of 55 corporations were created and 16 dissolved, as follows:

	Created.	Dis- solved.
Mercantile	46 1 1 7	14
Total	55	16

¹ Not including inheritance and insurance taxes.

² For purposes of comparison, 3.81 should be used instead of 2.83.

Leaving at the close of the year 792 domestic corporations, an increase of 39 in all. The total capitalization of domestic corporations other than eleemosynary, etc., is \$171,383,943, an increase of \$1,307,715, or 0.76 per cent, for the year. Foreign corporations to the number of 144, as compared with 153 of the preceding year, are authorized to do business in the Territory. Three national banks also do business in the Territory as compared with two of the preceding year. The classes, number, and capitalization of the domestic corporations now in existence incorporated before and after the transfer of sovereignty to the United States are as follows:

Hawaiian corporations.

		Number.		Capital.			
Class.	Incorpo- rated before Aug. 12, 1898.	Incorporated after Aug. 12, 1898.	Total.	Incorporated before Aug. 12, 1898.	Incorporated after Aug. 12, 1898,	Total	
Agricultural Marcantile Railroad Street car Steamship Bank Savings and loan Trust Insurance Eleemosynary	1	106 394 4 2 1 6 13 6 2 130	153 433 9 2 2 7 18 7 2 164	\$47, 986, 750 19, 901, 125 7, 370, 000 8, 000, 000 600, 000	\$35,909,015 43,815,093 7,139,960 1,950,000 6,000 1,650,000 776,000 900,000 200,000	\$83, 875, 765 63, 716, 218 14, 509, 960 1, 950, 000 2, 250, 000 776, 000 1, 100, 000 200, 000	
Total	128	664	792	79, 037, 875	92, 346, 068	171, 383, 943	

Income taxes collected for the year ended June 30, 1918, by races, etc., of taxpayers.

	General income.		Special income.			
Taxpayers.	Number tax- payers.	Amount collected.	Number tax- payers.	Amount collected.	Total.	Percent- age.
Corporations, firms, etc	3, 261 300 165	\$656, 817. 80 114, 280. 32 11, 406. 79 1, 661. 94 4, 678. 18 3, 773. 45	429 463 30 22 20 12	\$316, 974. 33 21, 121. 86 3, 388. 21 404. 25 948. 87 220. 95	\$973, 792. 13 135, 402. 18 14, 795. 00 4, 177. 70 5, 627. 05 1, 882. 89	85.74 11.94 1.31 .36 .49
Total	4, 557	792, 618. 48	976	343, 058. 47	1, 135, 676. 95	100.00

¹ Exclusive of interest, penalties, and costs.

BANKS.

Twenty-three banks were in operation during the year. These were distributed as follows: Nine in Honolulu; one each at Schofield and Waipahu, on the island of Oahu; three at Hilo; one each at Honokaa, North Kona, and North Kohala, on the island of Hawaii; one each at Wailuku, Kahului, Paia, and Lahaina, on the island of Maui; and one each at Lihue and Waimea, on the island of Kauai. Three are national banks, namely, one at Honolulu, one at Schofield, and one on the island of Maui. One of the banks is solely a savings bank, two are solely commercial, and the remainder are both commercial and savings banks.

Deposits in banks since organization of Territorial government.

Fiscal years.	Num- ber of banks.	Commercial deposits Dec. 31.	Savings deposits June 30	Total.
1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915	9 9 9 9 11 11 11 11 16 17 17	\$3, 857, 413. 16 4, 094, 919. 90 3, 604, 965. 00 4, 159, 078. 89 3, 993, 052. 90 5, 022, 495. 26 4, 996, 042. 04 6, 334, 991. 42 9, 033, 385. 97 10, 289, 707. 89 12, 667, 162. 39 11, 641, 901. 30 12, 378, 041. 53 12, 378, 041. 53	\$804,718.01 1,073,581.66 1,102,707.24 1,372,157.00 1,695,326,76 2,527,943.96 2,777,554.98 3,322,827.79 4,290,919.57 5,020,555.62 5,521,973.11 5,384,395.72 6,275,790.63 7,786,569.9 9,061,910.28	\$4, 662, 131. 17 5, 168, 501. 46 4, 797, 672. 24 5, 531, 235. 89 5, 688, 379. 66 7, 550, 439. 22 7, 743, 596. 3 9, 657, 819. 21 13, 324, 305. 5 18, 189, 135. 50 17, 026, 297. 02 16, 647, 665. 23 20, 114, 610. 827. 02 6, 379, 249. 68

Savings bank accounts, by races, June 30, 1918.

	Population, 1917.		Accounts.		Deposits,		
Races.	Estimat- ed.	Per cent.	Number.	Per cent.	Average.	Total.	Per cent.
Japanese Chinese Hawaiians. Portuguese All others.	102, 479 22, 100 39, 300 23, 990 62, 758 250, 627	40. 88 8. 82 15. 68 9. 57 25. 05	9,035 2,828 5,284 3,913 12,324 33,384	27. 06 8. 47 15. 83 11. 72 36. 92	\$115. 13 254. 52 87. 68 369. 23 508. 80 296. 33	\$1,040,180.33 719,768.39 463,324.06 1,444,796.09 6,224,639.21 9,892,708.08	10. 52 7. 27 4. 69 14. 60 62. 92

INSURANCE.

The average fire losses throughout the United States on every \$100 paid in premiums is approximately \$56. In Hawaii, where such statistics have been kept since 1903, the average loss is only \$13.77.

This shows that fire-insurance rates here are very high as compared with the mainland. Fire underwriters with whom the matter is taken up point to the conflagration hazard and there is no question that this hazard exists in the two principal cities of the Territory, Honolulu and Hilo. The treasurer of the Territory, who is ex officio fire marshal, has recently issued certain regulations whose enforcement it is hoped will very materially reduce this hazard with a consequent reduction of fire rates.

Insurance companies pay, in lieu of other taxes, a tax of 2 per cent on gross premiums, less return premiums and reinsurance, and, in the case of life insurance companies, less expenses also. In addition, insurance agents are required to pay certain license fees, and

there are also filing and other fees.

The number of insurance companies doing business in the Territory in 1917 was 101, divided as follows: 45 fire; 7 marine; 10 life; 4 fire and marine; 3 fire, marine, and automobile; 10 fire and automobile; 1 fire, marine, automobile, and tourist; 1 fire, automobile, fidelity and surety, workmen's compensation, live stock, and medical defense; 1 fire, automobile, fidelity and surety, plate glass, package, and workmen's compensation; 1 marine and automobile; 1 life and

accident and health; 3 accident and health; 1 accident and health, automobile, burglary, employers' liability, fidelity and surety, plate glass, property damage, workmen's compensation, and live stock; 1 accident and health, automobile, fidelity and surety, property damage, and workmen's compensation; 1 accident and health, automobile, burglary, employers' liability, fidelity and surety, and workmen's compensation; 1 accident and health, burglary, employers' liability, fidelity and surety, plate glass, and property damage; 1 accident and health, burglary, employers' liability, property damage, and workmen's compensation; 1 accident and health, burglary, and fidelity and surety; 1 accident and health, employers' liability, property damage, and workmen's compensation; 1 accident and health and property damage; 1 burglary and fidelity and surety; 1 employers' liability and workmen's compensation; 1 automobile, employers' liability, fidelity and surety, and plate glass; 2 plate glass; 1 workmen's compensation.

Recapitulation of insurance business transacted in the Territory of Hawaii for 1917.

Class.	Insurance written.	Premiums.	Renewal premiums.	Losses, claims, etc., paid.	
Fire Marine Life Accident and health Actiomobile Burglary. Smployers' liability Fidelity and surety. Plate glass Property damage. Property damage. Workmen's compensation Live stock. Medical defense Fourist. Total Total	142, 081, 106. 34 6, 599, 187. 00	452, 528. 41 350, 248. 30 56, 844. 84 861. 46 13, 715. 24 49, 153. 68 3, 083. 48 230. 40 7, 648. 86 126, 738. 7197. 75	\$569, 880. 19 \$80, 880. 19 880, 880. 19 749, 672, 47	175, 036, 6 297, 364, 3 15, 926, 8 18, 380, 9 43, 1 7, 077, 2, 947, 9 856, 2 482, 2 30, 495, 8	
increase in 1917		562, 098. 38	120, 187. 72	316,087.1	

Comparative statement of fire insurance business transacted in the Territory of Hawaii for the calendar years 1903-17 inclusive.

Year.	Insurance written.	Premiums.	Losses, claims, etc., paid.	Percentage loss to amount insured.	Loss paid for each \$100 preminm.
1903	21, 928, 280, 95 23, 270, 292, 95 25, 214, 465, 13 25, 239, 095, 86 24, 343, 503, 77 26, 527, 407, 86 27, 131, 432, 65 28, 385, 448, 72	\$364, 628. 51 364, 947. 07 377, 762. 00 389, 913. 91 442, 361. 19 508, 262. 80 549, 456. 92 585, 292. 56 567, 821. 25 568, 888. 90 002, 634. 14 692, 232. 98 857, 887. 65	\$153, 261. 17 90, 215. 63 22, 456. 00 160, 249. 64 37, 512. 67 39, 096. 52 10, 259. 71 69, 778. 62 92, 494. 35 47, 781. 56 87, 630. 79 64, 762. 96 82, 171. 92 1, 072, 603. 13	0.0077 .0047 .0012 .0075 .0016 .0016 .0016 .0028 .0030 .0030 .0031 .0030 .0021 .0030	\$42.00 38.30 7.53 42.63 8.80 2.69 13.70 17.38 8.16 11.58 12.58 12.58 4.58

COMMERCE.

Imports and exports, by fiscal years, since organization of Territorial government.

		Imports.				Total im-	
Years	United States.1	Foreign countries.	Total.	United States.	Foreign countries.	Total.	ports and exports.
1901 1902 1903 1904 1905 1906 1906 1907 1908 1909 1910 1911 1911 1912 1913 1914 1915 1916 1917 1918	(2) \$12,675,028 11,987,050 11,703,519 13,224,566 14,225,210 15,303,325 17,391,406 20,531,913 22,322,121 23,095,878 29,129,409 20,348,832 28,029,681	\$2, 826, 633 3, 366, 583 3, 142, 013 3, 797, 641 3, 275, 242 4, 151, 709 4, 682, 399 4, 682, 399 4, 682, 399 4, 683, 574 6, 873, 531 6, 882, 558 5, 716, 023 6, 685, 529 6, 482, 951 6, 797, 048	\$2, 826, 633 3, 036, 583 15, 817, 039 15, 734, 991 14, 718, 483 16, 499, 808 81, 376, 919 19, 985, 724 21, 424, 980 25, 138, 247 27, 512, 570 28, 694, 322 36, 002, 940 35, 550, 257 26, 034, 835 34, 038, 210 46, 335, 341 51, 801, 204	\$27, 935, 885 \$24, 730, 060 26, 242, 889 25, 157, 255 36, 114, 985 26, 834, 210 91, 134, 467 41, 640, 815 40, 437, 352 40, 133, 649 41, 207, 941 40, 678, 294 40, 678, 294 40, 678, 294 40, 678, 394 41, 303, 307, 307, 307, 307, 307, 307, 307	\$117, 958 63, 547 32, 569 47, 620 59, 541 563, 133 229, 914 597, 640 84, 152 302, 763 730, 642 373, 273 758, 646 915, 245 61, 249 225, 221 635, 864 1, 151, 218	\$28,053,843 24,793,607 26,275,438 25,204,575 36,174,526 26,940,523 364,381 42,235,455 40,521,504 46,486,412 41,938,863 55,449,438 43,471,940 41,594,072 62,388,356 64,670,852 80,546,606	\$30, 890, 476 27, 830, 190 42, 092, 477 40, 889, 566 50, 883, 009 43, 440, 331 47, 741, 300 62, 224, 179 61, 946, 484 71, 624, 659 69, 451, 153 69, 451, 153 69, 451, 153 77, 144, 329 77, 144, 329 212, 474, 324 132, 347, 810
	356, 538, 981	83, 152, 825	439, 691, 806	784, 765, 419	6, 443, 975	791, 209, 394	1, 230, 901, 200

¹ These figures include specie except for the last seven years, but since 1903 most of the specie has been handled through the post office by registered mail, and the amount thereof is not included in this table. During the last fiscal year the shipments of gold and silver coin other than those made through the mails were: From the United States, \$2,924,800; from foreign countries, nothing; to the United States, \$193,496.00; to foreign countries, \$214,849.00; total \$3,333,145.

³ Not kept.

Imports and exports, by countries, fiscal years 1917-18.

Countries.	Imp	orts.	Exports.		
Countries.	1917	1918	1917	1918	
Australia and Tasmania Other British Oceania British India Canada Chile France Germany Hongkong	2, 507 428, 126	\$118,443 71,974 834,512 345,340 1,001,089 4,304 6,064 385,011	\$8, 684 76, 194 453 159, 707 40	\$20, 284 161, 923 88, 856	
Japan United Kingdom Other foreign	3, 406, 571 86, 662 258, 234	3, 672, 468 68, 991 288, 852	203, 752 7, 744 173, 942	626, 624 196 242, 210	
Total foreign United States	6, 482, 951 39, 875, 390	6, 797, 048 45, 004, 156	635, 864 74, 480, 119	1, 151, 218 79, 395, 388	
Grand total	46, 358, 341	51, 801, 204	75, 115, 983	80, 546, 606	

Domestic exports, by articles, fiscal years 1917-18.

	United Sta	ites, 1918.	Foregin, 1918.1		918.1 Total, 1918.		Total, 1917.	
Articles.	Quantity.	Value.	Quan- tity.	Value.	Quantity.	Value.	Quantity.	Value.
Sugar: Raw Refined Coffee, raw. Fruits and	Pounds. 1, 053, 701, 147 27, 207, 650 1, 967, 900	2,031,584			Pounds. 1, 053, 701, 147 27, 227, 446 3, 206, 022	2,083,011	84, 812, 541	2,605,810
nuts and nuts and Rice Hides	1, 247, 731 1, 734, 919			115, 162 813, 945	1, 247, 781 1, 734, 919		3, 527, 846 1, 484, 837	8, 355, 395 165, 779 295, 965 3, 040, 826
Total	1, 085, 859, 347	79, 366, 005	1, 257, 918	1, 121, 537	1, 087, 117, 265	80, 487, 542	1, 170, 215, 951	74, 992, 806

¹ Figures on foreign exports are for the 12 months ended Apr. 1, 1918.

³ Mostly pineapples.

Customs receipts, fiscal years, since organization of Territorial government.

Fiscal year.	Amount.	Fiscal year.	Amount.
1900 (half of June) 1901 1902 1903 1904 1904 1905 1906 1907 1908 1909 1909	1,219,618,93 1,327,518,23 1,193,677,83 1,229,492,15 1,043,404,40 1,218,764,13 1,458,843,48 1,550,157,32	1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918.	1,643,197.37 1,869,513.89 1,184,416.12 1,019,534.63 1,161,051.12

Number and tonnage of vessels, by fiscal years, since organization of Territorial government.¹

·	En	tered.	Cleared.	
Year.	Number.	Tons.	Number.	Tons.
1901	593 551 488 486 453 416 391 437 427 431 483 447 456 453	952,504 917,089 980,847 982,116 1,013,841 1,049,836 1,075,939 1,159,118 1,343,876 1,370,315 1,582,255 1,660,888 1,005,925 1,437,395 1,374,511	701 597 552 497 452 450 439 412 394 427 431 429 476 445 445 445 445 4461 479	942, 021 918, 547 971, 359 936, 627 973, 279 1, 012, 867 1, 199, 749 1, 199, 749 1, 328, 875 1, 347, 371 1, 359, 109 1, 577, 102 1, 642, 558 1, 574, 845 1, 469, 617 1, 380, 821
Total	8, 134	20,749,303	8,078	20,684,216

Owing to war conditions figures or tonnage and number of vessels calling at island ports during the last year are not available for publication.

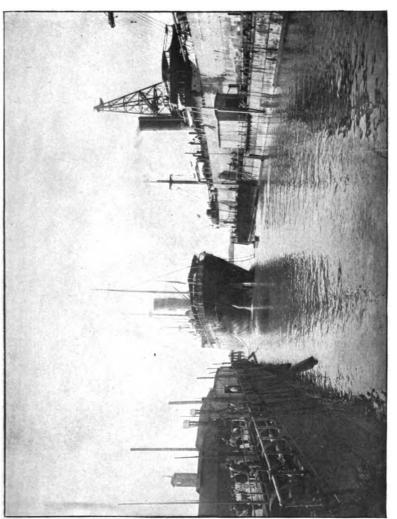
Value carried by American and foreign vessels.

**1	F	iscal year 191	6.	Fiscal year 1917.				
Vessels.	Imports.	Exports.	Total.	Imports.	Exports.	Total.		
American	\$29, 425, 654 4, 672, 556	\$64, 495, 108 175, 744	\$93, 920, 762 4, 848, 300	\$41,084,066 5,274,275	\$74,638,677 477,306	\$115,722,743 5,751,581		
Total	34, 098, 210	64, 670, 852	98, 769, 462	46, 358, 341	75, 115, 983	121, 474, 324		

Vessels, by ports, fiscal year 1917.

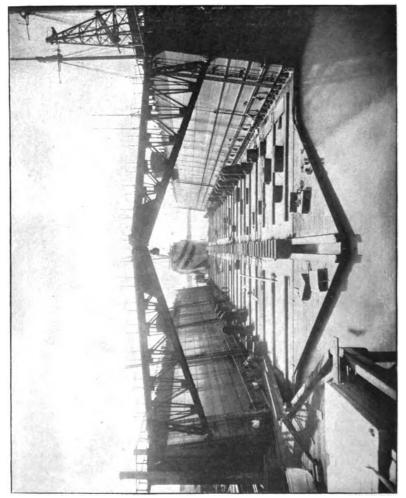
		In coastw	ise trade.1		In foreign trade.					
	Ente	ered.	ed. Cleared.			ared.	Cleared.			
Honolulu	Number. 260 48	Tons. 726,607 77,557	Number. 277 36	Tons. 810,842 64,370	Number. 149	Tons. 538, 783	Number. 125	Tons. 476, 129 1, 105		
Kahului Koloa Mahukona	15 7 3	17,948 4,708 2,177	17 14 9	21,422 9,482 7,471	1 6	1,778 4,953				
Total	333	828, 997	353	913, 587	156	545, 514	126	477,234		

¹ Includes vessels in traffic between this Territory and the mainland, but not vessels exclusively in traffic between the islands. Transports and vessels calling for bunker coal or fuel oil not included in above.

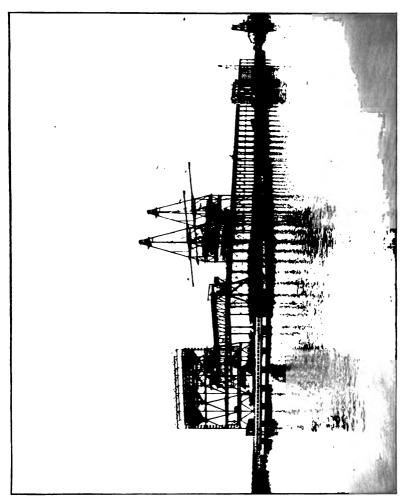


STEAMER ENTERING SUBMERGED DOCK.

646—1



346-2



NEW PLANT FOR DISCHARGING COAL AND BUNKERING AT HONOLULU.

646-3

TRANSPORTATION FACILITIES.

Owing to the Territory's dependence on water lines for passenger, freight, and mail accommodations, the scarcity of shipping facilities as a result of the war has made itself felt to a considerable extent during the last year. Tourist travel has suffered a marked drop from that of previous years.

Of special importance to Hawaii as a stopping place for vessels crossing the Pacific Ocean is the big plant completed recently by the Inter-Island Steam Navigation Co. of Honolulu for the discharging

and bunkering of coal.

The plant is said to be as modern in arrangement and mechanism as any in existence, being electrically operated throughout. The coal. after being weighed, is delivered through adjustable chutes directly to the bunker hatches, as high as 30 feet above the water and 30 feet from the face of the dock.

A floating dry dock is also maintained by this company, which structure has a capacity of 4,500 tons, but which has lifted a vessel of 5,300 tons without showing strain from the extra load. An addition is to be made to the dock, thus increasing the capacity by 3,500

tons.

INTERISLAND TRAFFIC.

Most of the interisland traffic is conducted by the Inter-Island Steam Navigation Co. (Ltd.), which operates a fleet of 12 steamers, varying in length from 136.1 feet to 252 feet, and from 11.5 to 18 feet draft; from 341 to 1,566 gross tons and from 201 to 940 net tons. The total tonnage is 8,987 gross and 5,834 net.

During the fiscal year this company carried 90,198 passengers and 402,145 tons of freight, which is an increase of 10,983 passengers and an increase of 52 tons of freight as compared with the previous

The Oahu Shipping Co. operates a fleet of six vessels, which carried approximately 39,726 tons of freight during the year. No passengers are carried by this company.

TRAFFIC WITH THE MAINLAND.

The Matson Navigation Co. operated five vessels, the Wilhelmina, Matsonia, Maui, Lurline, and Manoa, in the passenger service between San Francisco and island ports. Of these the Maui, Matsonia, and Wilhelmina have been withdrawn by the United States Govern-

ment and are now presumably in the war zone.

The President and Governor, large passenger carriers, were also consigned to this company, each vessel making about five trips. They were later withdrawn by the Government. At present the company is operating the Sachem, a vessel with a total passenger capacity of 42 persons. This vessel is owned by the United States Shipping Board.

In the freight trade the company has had the steamers Hyades, Enterprise, and auxiliary schooner Annie Johnson and the auxiliary bark R. P. Rithet, which latter was burned at sea some months ago.



Besides these the company has had some sundry freight vessels under United States and Swedish registry consigned to it during the year, all of which have taken cargoes of sugar on their return to San Francisco. Seven sailing vessels owned by the Alaska Packers' Association were also consigned to the company for a short time, and

all took sugar cargoes to San Francisco.

The American-Hawaiian Steamship Co., which had been in the Hawaiian trade since January, 1901, handled a majority of the freight traffic between the Territory and the Atlantic coast previous to the past year. The steamers of this company are all now engaged in the transportation of Government freight between Atlantic coast ports and France.

THROUGH SERVICE.

The Pacific Mail Steamship Co. has continued to operate the Ecuador, Venezuela, and Colombia, vessels of 14,000 tons each, between San Francisco and Oriental ports with stopovers at Honolulu both ways. In addition, the company has recently inaugurated a Manila-East India service with two 16,000-ton passenger and freight steamers, the Santa Cruz and Colusa, which also stop regularly at Honolulu on the homeward voyage. The Persia Maru, a 9,000-ton steamer, a proffer of which by the Japanese Government was recently accepted by the United States Shipping Board, has been placed under the management of the company and is now in regular service between San Francisco and Honolulu and Manila.

The China Mail Steamship Co. (Ltd.) operates the *China*, a vessel of 3,186 tons net, and carrying first, second, and third class passengers between San Francisco, Honolulu, and the Orient. It is anticipated that this company will also shortly place the *Nanking*

on the same run.

Until May of this year the Toyo Kisen Kaisha was operating a fleet of nine steamers between China, Japan, Honolulu, San Francisco, and South American ports, all of which vessels made regular calls at Honolulu. Of the nine steamers six were on the San Francisco-Orient run and the others on the South American run. All of the South American steamers called at the port of Hilo on the outward voyage from Japan. The Persia Maru of the San Francisco-Orient route and the Seiyo Maru of the Orient-South American run have now been turned over to the United States. The Nippon Maru replaces the Seiyo Maru on the South American run, while no vessel has yet been provided in substitution of the Persia Maru and the Nippon Maru on the San Francisco schedule.

After withdrawing its vessels for several months, the Nederland Royal Mail and Rotterdam Lloyd Joint Service is again operating with 7 steamers on a 40-day service between Batavia, Java, and San Francisco, touching fortnightly at Honolulu and Japanese and Chi-

nese ports.

The Oceanic Steamship Line is operating two vessels on a three weeks' service between San Francisco and Sydney, by way of Honolulu and Pago Pago. One other vessel of the company was taken over by the United States Government a few months ago.

It is asserted that in the near future the Commonwealth Government Line may begin operating a fleet of vessels between Australia,

Honolulu, and Pacific coast ports.

The Canadian-Australasian Royal Mail Line continues to operate but two passenger and freight steamers on the Sydney, Auckland, Suva, Honolulu, and Vancouver route, which vessels are on a four-week schedule each way. One steamer has a gross tonnage of 13,500 tons, is 543 feet in length, and has accommodations for 667 passengers. It is asserted that at the conclusion of the European war this company will operate an additional steamer the size of the *Niagara*, and revert to its old schedule in effect prior to the war.

The Standard Oil Co. operates a fleet of five steamers between the mainland and the Territory. These vessels delivered during the calendar year 1917 a total of 477,875 barrels of fuel and refined oils, 26,433 cases and 989 barrels of lubricating and refined oils, and 644

barrels of asphaltum.

The Associated Oil Co. operates three vessels, and during the fiscal year these delivered 612,655.75. barrels of fuel oil, 141,232 gallons of

distillate, and 90,512 gallons of engine and stove distillate.

The Union Oil Co. of California received during the fiscal year 462,466.17 barrels of oil at Honolulu, 61,077.77 barrels at Hilo and 9,780 barrels at Mahukona, making a total of 53,332.94 barrels for all ports.

A number of sailing vessels continue to bring general merchandise and coal from foreign ports, and several small Shipping Board boats have recently been assigned to the islands to move the 1918 sugar

and pineapple crop.

STEAM RAILROADS. Statistics of steam railroads.

								Rolling sto	ock.
Island.	Number.	Track.	Increase.		Gauge.		Locomo	Passenge cars.	Freight cars.
OahuHawaii	2 154.16 8 128.70 1 41.28 1 18.22 7 342.36		1. 56 . 20		Ft. 3 4 4 3 2	##. 0 0 8½ 0 6		6 10 9	3 262 3 172 24
Island.		Freig			angers ried.		nds out- inding.	Rate of interest.	Capital stock.
Oshu		245 291	, 157 , 798 , 974 , 512	31	12, 154 99, 855 18, 425	\$2, 2,	000,000 350,000 252,000	Per cent. 5 5	\$5, 180, 000 3, 954, 960 300, 000 500, 000

PRIVATE (PLANTATION) RAILWAYS.

				Rolling stock.			
Island.	Number.	Track.	Increase.	Locomo- tives.	Passenger cars.	Freight carr.	
Oahu Hawaii Maui Kauai	9 13 6 9	197. 25 103. 74 161. 76 171. 51	10 2.33 12.96 4.29	33 29 25 36	8 2	2,710 1,663 2,774 3,492	
Total	87	634. 26	29.58	123	10	10,639	
Grand total	44	976. 621	33. 01	175	82	11,778	

STREET RAILROADS.

The Honolulu Rapid Transit & Land Co. controls and operates the only street railway system in this Territory, same being located in the city of Honolulu. It is an electric line, partly single and partly double track. During the year the company expended for betterment of the system \$92,962.66. Its outstanding capital stock is \$2,000,000. Its gross income for the calendar year of 1917 was \$726,603.40, an increase of \$56,621.66 over that of the preceding year. Its disbursements were \$772,991.78, an increase of \$125,228.37. The number of fare passengers carried was 14,378,092, an increase of 1,164,392 over that of the previous year; the number of free passengers carried, being principally policemen, letter carriers, and firemen, was 191,302, an increase of 30,197. School children are carried at half rates. The car mileage was 2,018,815.31.

The franchise for the construction of a street railway system for the district of South Hilo, island of Hawaii, was granted the Hilo Traction Co. on August 1, 1912, and was twice amended by Congress, the time being to August 7, 1918, in which construction work should be undertaken, or in lieu of which a bona fide contract should be entered into by the holders of the franchise for either materials or construction work in an amount not less than \$20,000. Conditions arising from the war made it impossible for the promoters of this project to close arrangements for the financing, as well as presenting many difficulties in securing the requisite materials and supplies. However, a definite order has been placed for 3½ miles of track materials which are expected to be on the ground before the close of the calendar year.

LIGHTHOUSES.

Honolulu is the headquarters of the nineteenth lighthouse district, which embraces all of the islands comprising the Territory of Hawaii and certain other islands in the Pacific Ocean.

At the close of the year there were in commission 1 hyperradiant light, 2 second-order lights, 1 third-order light, 3 fourth-order lights, 2 fifth-order lights, 32 lens-lantern lights, 5 electric lights, 7 automatic acetylene gas buoys, and one lighthouse vessel, the tender Kukui.

On the island of Hawaii two lights were improved, Kauhola Point Light Station was changed from a lens-lantern light to a fourthorder incandescent oil-vapor revolving flashing light, and Alia Point Light was changed from a lens-lantern light to an automatic acetylene

gas flashing light in a new structural steel tower.

On the island of Maui an automatic acetylene gas flashing light was established at Hanamanioa Point, and an automatic acetylene gas lighted buoy was established in place of the unlighted whistling buoy in Waihee Reef, entrance to Kahului Harbor.

On the island of Oahu improvements were made in the channel aids of Honolulu Harbor, including the establishment of a range of electric lights, the front light on the roof of Pier 7, and the rear light on a skeleton tower on the roof of the McCandless Building. Preliminary plans are being prepared for a system of lights in Pearl Harbor, for which Congress appropriated \$90,000, and a site is being acquired for the establishment of an automatic acetylene gas light at Kaena Point.

TELEGRAPHS AND TELEPHONES.

In addition to the cable system across the Pacific Ocean, which has been in operation a number of years, there are three powerful wireless plants, all of which are either wholly or in part operated by the Government. The Government also operates the interisland wireless system of the Mutual Telephone Co. of Honolulu, having

taken it over at the beginning of the war.

The sending station of the Marconi Wireless Co., which was taken over by the Government upon the day war was declared, was turned back on March 20, 1918, but is being held in readiness, subject to the call of the Government, to be placed in operation upon short notice. Considerable expenditure of money is being made by the company in replacing the heavy plow steel guy cables supporting the steel masts, with wrapped and tarred steel cables to prevent deterioration from the elements. The Marconi sending station at Koko Head was taken over by the Government on January 8, 1918, and is in operation.

The Mutual Telephone Co. operates the principal telephone system on the island of Oahu, and now has in operation 48 miles of conduit, 113 miles of cable, and 1,500 miles of open wire in Honolulu alone. Outside of the city it has 1,164 miles of copper wire, 1,675

miles of iron wire, and 715 instruments.

On the island of Hawaii the Hawaii Telephone Co. of Hilo operates 1,421 instruments, with 2,499 miles of open wire. The Kohala Telephone Co., on the same island, operates 98 telephones on 225

miles of wire.

The Maui Telephone Co. of Wailuku, Maui, operates 965 instruments, with 1,812 miles of wire, and the Kauai Telephonic Co. of Lihue, Kauai, has 280 telephones and 495 miles of wire in operation.

POSTAL SERVICE.

Interior changes made during the last fiscal year added to the floor space of the present Honolulu post office and gave better facilities for the transaction of its largely increased business. The alterations added 166 lock boxes, enabling the post office to accommodate many

patrons who desired box service but who for years had not been able to secure boxes. These improvements were in the nature of a makeshift adopted in view of the indefinite postponement of the construction of the new Federal building and post office.

The post office could use three times its present floor space. A new building is much needed. However, there is no appeal at this time from the decision of the Treasury and Post Office authorities that the

building must wait until after the war.

Upon the recommendation of the postmaster, the Postal Regulations were amended, effective May 1 last, making money orders issued at a post office in Hawaii payable at any other post office in Hawaii under certain necessary restrictions. This adds materially to the convenience of the Money-Order System as a means of making small

remittances within the Territory.

Changes of administrative methods centralizing accounting and other functions at Honolulu, several additions to the normal work of the office in the nature of war duties, including the sale of War Savings and Thrift Stamps, which to July 31 had realized nearly \$800,000 cash, have added largely to the duties and responsibilities of the post office during the past year. To meet the situation the postmaster recommended and secured the addition of two carriers and two clerks to the working force.

The steady growth of Honolulu is shown by the following tabulation of the general receipts at the post office for the past five years:

 Fiscal year:
 \$187, 632.31

 1915
 140, 219.19

 1916
 158, 659.10

 1917
 176, 557.24

 1918
 204, 553.83

The increase for 1918 over 1917 is \$27,996.59. But for the falling off of tourist travel the 1918 receipts would have been much larger. The increase is partially explained by the increase in the rate of first-class postage. It is an interesting fact that receipts exceeded

disbursements for 1918 by \$101,266.50.

The statistics of money-order business at the Honolulu post office show that while there was a slight falling off in the number of domestic and international money orders issued during the last fiscal year as compared with the preceding one there was nevertheless a substantial increase in the amount called for by the orders. Domestic money orders issued in the fiscal year 1918 numbered 43,184 and amounted to \$704,485.64. The fees aggregated \$3,823.96. International money orders issued numbered 7,168, amounting to \$214,307.90. The fees on the international orders came to \$2,402.10. Money-order remittances received from other island offices at Honolulu aggregated in value \$2,639,086.21. The total cash handled at Honolulu on account of money-order business was \$3,755,343.47. For the fiscal year 1917 the total cash handled was \$3,550,320.34.

Perhaps the most important feature relating to money-order business at Honolulu has to do with the amount annually remitted to Japan from Hawaii through this means. During the fiscal year 1917, 43,042 international money orders payable in Japan were purchased in the Hawaiian Islands. They called for a total of \$1,096,038.30. This sum was taken out of Hawaii in cash for the fiscal

year 1917 and remitted to Japan. In the fiscal year 1918 only 35,822 orders payable in Japan were bought in Hawaii, and the amount remitted by island Japanese to their mother country was reduced to \$997,528.93, a decrease of \$198,509.37.

POPULATION, IMMIGRATION, AND LABOR.

See "Schools" for pupils by races, ages, etc., in public and private schools for different years; "Taxation" for amount of taxable property owned and income taxes paid by different races; "Public lands" for homesteads taken by different races; "Banks" for amounts of savings deposits by different races; "Vital statistics" for births, marriages, and deaths; and "Courts" for percentages of convictions among different races.

The estimated population, including that of the Army and Navy, on June 30, 1918, was 256,180, an increase of 64,271, or 33.49 per cent, since the census of 1910. The estimated population of Honolulu, the capital of the Territory, is 75,000. The following table shows the population by races, as near as can be estimated, as of June 30, 1918.

Estimated population June 30, 1918.

Races.	Census, Apr. 15, 1910.	Esti- mated, June 30, 1918.	· Races,	Census, Apr. 15, 1910.	Esti- mated, June 30, 1918.
Hawaiian Part Hawaiian Portuguese. Spanish Porto Rican Other Caucasian	23,303	22,850 16,100 24,250 2,270 5,200 30,400	Chinese	7,964	22, 260 106, 800 20, 490 5, 660 256, 180

Steerage arrivals and departures and births and deaths, eight fiscal years since census of April, 1910.

	Hawai- ian.	Part Hawai- ian.	Portu-	Span- ish.	Porto Rican.	Other Cau- casian.	Chi- nese.	Jap- anese.	Pili- pino,	All other.	Total.
Arrivals: 1911 1912 1913 1914 1915 1916 1917			601 862 362 208 112 180 159 35	908 911 2,422 25 24 4 15	7	10 270 96 137 103 170 17	583 512 586 582 395 563 471 306	2, 248 3, 500 5, 015 4, 562 3, 186 4, 195 4, 029 3, 886	2,200 3,038 5,749 8,199 1,244 1,752 2,932 2,676	208 743 856 659 705 577 720 899	6,766 9,837 15,066 9,342 5,760 7,441 8,343 7,321
Total			2, 519	4,310	8	821	3,958	30, 615	22, 799	4,865	69,895
Births: 1911 1912 1913 1914 1915 1916 1917 1918	592 649 574 586 533 617 597 635	467 625 627 708 786 833 917 992	700 754 841 911 883 946 971 1,048	78 121 170 235 266 255 199 161	232 219 229 216 176 236 191 237	208 224 255 290 315 323 878 416	423 441 489 548 607 655 680 666	1,726 2,021 2,230 3,039 4,606 3,662 4,918 4,679	27 38 92 154 219 251 346 456	46 52 70 69 116 121 168 214	4, 494 5, 147 5, 568 6, 756 8, 507 7, 899 9, 365 9, 204
Total	4,783	5, 955	7,054	1,480	1,727	2,409	4, 512	26, 781	1,588	866	57,140
Grand total	4,783	5, 965	9, 578	5,790	1,785	8,230	8,470	57,396	24, 8R2	5,721	127,053

Steerage arrivals ond departures and births and deaths, eight fiscal years since census of April, 1910—Continued.

				,						,	
	Hawai- ian.	Part Hawai- ian.	Portu- guese.	Span- ish.	Porto Rican.	Other Cau- casian.	Chi- nese.	Jap- anese.	Fili- pino.	All other.	Total.
Departures: 1911 1912 1913 1914 1915 1916 1917 1918			624 539 989 819 469 474 367 844	534 1,079 754 447 496 1,003 838	232 13 33 105 50 210 41 57	651 148 127 159 171 10 61 47	927 747 813 728 645 604 419 389	3,491 3,490 3,545 3,778 3,449 3,068 3,448 4,737	462 156 344 683 678 697 1,130 1,470	399 729 853 1,014 788 652 733 503	6,786 6,356 7,783 8,060 6,697 6,211 7,202 8,886
Total			5, 125	5, 151	741	1,374	5,272	29,006	5, 630	5,671	57,970
Deaths: 1911 1912 1913 1913 1914 1915 1917 1917	1,010 932 941 966 888 942 844 883	172 200 178 202 188 275 239 275	384 344 329 346 303 379 277 331	89 53 /0 79 52 79 58 42	101 91 67 79 95 107 57	171 163 155 204 162 201 210 227	253 225 230 247 276 274 271 331	1,030 942 1,012 1,296 1,301 1,385 1,246 1,363	66 59 178 223 209 223 229 364	70 62 72 65 82 75 67 101	3, 296 3, 071 3, 232 3, 707 8, 556 3, 940 3, 498 4, 010
Total	7.406	1,729	2,693	472	690	1, 493	2, 107	9,575	1,551	594	28, 310
Grand total	7,406	1,729	7,818	5, 623	1,431	2,867	7,379	38, 581	7, 181	6, 265	86, 210
Net gain	2,623	4, 226	1,755	167	804	363	1,091	18,815	17, 201	544	43, C22

Steerage arrivals and departures for the year ended June 30, 1918.

		Arrivals.									
		Coast.			Orient.		Total.				
	Men.	Women.	Chil- dren.	Men.	Women.	Chil- dren.	Men.	Women.	Chil- dren.		
Chinese	15 47 2	2° 8 4	1 6 1	236 1,629 2,077	29 1,966 278	23 235 314	251 1,676 2,079	31 1,969 282	24 241 315		
KoreansPortugueseSpanish	2 25 1	7	8	i	5		3 25	5 7	3		
Russians	257	2 44	2 24	2 57	8 7	3 1	3 814	10 51	5 25		
Total	350	62	87	4,003	2, 293	576	4, 353	2, 355	613		

						Depa	rtures.	•					
		Coast.			Orient.			Total.			Increase (+) or de- crease (-).		
	Men.	Women.	Chil- dren.	Men.	Women.	Chil- dren.	Men.	Women.	Chil- dren.	Men.	Women.	Chil- dren.	
Chinese	18 58 441	5 4	 1 11	347 2, 281 857	12 878 62	17 1,514 96	360 2,339 1,298	12 883 66	17 1,515 106	-109 -663 781	19 1,086 216	7 -1, 274 200	
Koreans	10 24 286 266 22 304	18 183 168 9 63	18 347 367 13 54	12 12 15 1 85	14 18 1 1	2 4 1 15	14 26 298 281 23 339	13 197 186 10 77	18 349 371 14 69	- 11 - 26 -273 -280 - 20 - 25	- 13 190 186	- 18 - 346 - 371 - 9 - 44	
Total	1,426	445	811	3, 556	999	1,648	4, 982	1,444	2, 450	-629	911	-1,846	

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PUBLIC LANDS.

The following table shows the total area of Government lands and their estimated valuation as of June 30, 1918:

Area.	Total area.	Estimated valuation.	Total valuation.
Acres. 29,659.19	A cres. 48, 849. 40		\$3,914,184.8
17, 531. 98 1, 299. 39 358. 84	32.047.99	409, 275. 10 163, 860. 00 3, 534. 00	844, 187. 46
17,080.06 12,478.75 2,489.18		401, 856. 66 282, 178. 55 160, 152. 25	108, 378. 00
	484, 383. 60 567, 168. 61 566, 754. 34	••••••	1,352,688.6 6,219,438.4 2,759,881.0
215, 085. 35 351, 668. 99	1,133,922.95 507,950,69		8, 979, 319. 4
	Acres. 29, 669, 19 17, 531, 98 1, 299, 39 358, 84 17, 080, 06 12, 478, 75 2, 489, 18 215, 085, 35 351, 668, 99	Acres. Acres. 29, 669, 19 17, 531, 98 1, 299, 39 358, 84 32, 047, 99 12, 473, 75 2, 489, 18 1, 887, 62 484, 383, 60 567, 168, 61 215, 085, 35 351, 668, 99 1, 133, 922, 95 507, 950, 60	Acres.

HOMESTEADS.

There were taken up during the year 315 homesteads, covering an area of 6,464.183 acres, at valuations aggregating \$243,979.60, or \$36.11 per acre, on the average. The homesteads taken averaged 20.521 acres each. They were taken by different nationalities, as follows: Hawaiians, 106; Portuguese, 99; Americans, 19; and others, 22. To enable homesteaders to obtain homesteads of suitable size for their needs, they are given the option of taking one or two or, in some cases, three lots. There were taken under special homestead agreements 236, under certificates of occupation 2, under right-of-purchase leases 60, under cash freehold agreements 10, homestead leases 7, and special sales agreements 180.

During the year 29 homesteads were surrendered or forfeited, covering an area of 849.71 acres. During the same period 55 transfers of homestead lots were made, having an area of 4,329.296 acres.

A total of 41 planting agreements, representing 779.59 acres, were signed. During the year there were sold at auction for cash 44 lots, including residence, church, and business site lots, containing a total area of 35.607 acres, for \$145,187.10. A total of 29 general leases, covering 102,454.803 acres, were sold at an aggregate annual rental of \$20,714.50.

LEASES, LICENSES, TRANSFERS, EXCHANGES, AND PURCHASES FOR PUBLIC PURPOSES.

Land and water licenses, 21 in number, were issued during the year,

giving a total annual rental of \$15,748.

Public lands in the Territory may be transferred from the Territory for the uses and purposes of the United States by order of the President.

The Territorial public lands are under the Territorial land department unless transferred by order of the governor for special public purposes. The following transfers were made during the year in the form of executive orders by the governor:

July 3, 1917: For the use of the county of Hawaii as a stable site, 0.459 acre. August 24, 1917: For school purposes under the control and management of the board of supervisors of the county of Hawaii, 1.80 acres.

January 31, 1918: Withdrawing certain land at Kapaa, Kauai, from the operation of executive order No. 30, setting the same apart for the purpose of establishing thereon a county farm and sanitorium.

January 81, 1918: For an addition to the Kapaa school lot, Kapaa, Kauai,

8.39 acres.

April 1, 1918: For a public park and playground at Waiakea-kai, South Hilo, Hawaii. 1.16 acres.

April 25, 1918: For a public park at Lahaina, Maui, 7.67 acres.

April 25, 1918: For a public park at Waimea, Kauai, the same to be under the furisdiction of the board of supervisors of the county of Kauai, 0.51 acre. April 25, 1918: For a public park at Lahaina, Maui, 7.67 acres.

Patents and commutations.—There were issued during the year 199 patents, covering an area of 2,873.512 acres, for considerations aggregating \$269,849.49, or at the rate of \$9.39 per acre. Of these, 52 were right-of-purchase leases, 17 land exchange, 85 time payments, 2 cash freehold agreements, 26 cash purchases, 16 preference rights, 1 compromise with abutting owner, 1 homestead under acts of 1892 and 1895.

There were also issued 2 patents based on land-commission awards upon payment of commutation, the area being 7.073 acres and the commutation \$21.50.

Revenues and disbursements. The total receipts of the land department were \$575,015.21, as compared with \$375,126.94 for the preceding year. Expenditures were \$32,640.01.

Receipts of public lands department for the year ended June 30, 1918.

Rents:		
General leases	\$281, 797, 2	7
Right of purchase leases	6, 870. 8	
Kaimu leases	5. 0	
		- \$288, 673, 09
Interest and fees:		42 00, 010. 00
Special homestead agreements	5, 808, 6	0
Special sale agreements		
Cash freehold agreements		
Interest on commutation		•
Office fees	420. 0	
		- 7, 283. 69
Land sales:		_
Special homestead agreements		
Special sale agreements	12, 968. 3	
Right of purchase leases	13, 556, 2	1
Cash freehold agreements		4
Preference rights	10, 267, 2	5
Cash sales		
Government commutations	336. 0	
Coactument communations		- 272, 026, 01
Tournements on lands		
Improvements on lands		
Government realizations		4, 574. 60
Total		575, 015. 21

NATIONAL PARKS.

All of the private lands in the Mauna Loa Park area have been acquired by the Government. The trail from Kilauea to the Mauna Loa Park is being constructed by the Volcano Research Association, and there will probably be no difficulty in acquiring it if desired by the Government. No difficulty is anticipated in securing private lands in the Haleakala Park area, provided certain shooting privileges are allowed to keep the wild goats within the crater from climbing out and descending into the cane fields on the outer slopes. A bill is now in Congress to authorize the Territory to exchange lands with the estate now owning land within the area. B. G. Rivenburgh, commissioner of public lands for the Territory, is special agent for the National Park Service to attend to national park matters in the Territory.

SURVEY DEPARTMENT.

The work of this department remains much the same as for the preceding year. Several homestead subdivisions have been completed, many surveys of a miscellaneous nature have been made in connection with public land transactions, and tracings, blue prints, and other data furnished. The tax assessors are frequently given copies of maps that tend to assist them in their effort to levy fair assessments.

FIELD WORK.

ISLAND OF KAUAI.

Waimea.—A detail survey of the village or town lots near the shore and remnants situate in the valley was started in August, 1917, and after establishing the boundaries of something over 150 privately owned parcels of land it left remnants of value in the title of the Government which aggregated 207 acres, approximately. area within what is known as the "Waimea town or village" was subdivided into 61 lots, while the remnants in the valley number 72. This is the first detailed survey made of the section; and as complete data was not available, quite a number of original title papers not having been recorded, some of the locations had to be adjusted a second or third time, as more complete information was obtained from the few remaining old residents living in that vicinity. This caused some unexpected delays, but there was some satisfaction in assisting the humble citizens in establishing the location of their house lots and advising them of the importance of recording the deeds they had received from Kamehameha III and Kamehameha IV in order to perfect their titles.

Waimea upper boundary.—A boundary study was made of the Upper Waimea lands, and the lines in dispute, between the representatives of Messrs. Gay and Robinson and the estate of V. Knud-

sen, the original lessees, were established.

Wailua.—The subdivision of this tract into homestead lots, district of Puna, showed an area of 1,261.4 acres. The survey, which was commenced in May, 1918, was completed just before the close of the period.

Hanapepe.—The detail survey of this land was started immediately after the completion of the Waimea detail survey, and will include an area of approximately 1,400 acres, classed as cane, wet, and kula land.

Kokee Camps.—A small area of Government land in the vicinity of Halemanu, and within what is known as the "Na Pali-Kona Forest Reserve," district of Waimea, has been surveyed and staked out into 47 camp sites or summer lots, each having from one-fourth of an acre to 2 acres in area. Owing to the high elevation and climatic conditions, it is an ideal spot for camping during the summer.

Puu Ka Pele Forest Reserve.—The proposed addition to the Na Pali-Kona Forest Reserve, in the region of Puu Ka Pele, was marked out and flagged. It contains an area of 4,900 acres, more or less.

ISLAND OF OAHU.

A number of minor surveys were made.

ISLAND OF MAUI.

The only field work done on this island, during the fiscal period, was the checking of two land-court petitions, one at Lahaina, and one at Omaopio.

ISLAND OF MOLOKAL.

At the request of the land commissioner, an inspection on the ground was made of 25,500 acres of land, situate on the west end of this island, a portion of which is classified as pasture and marsh land, while the remainder is rather thickly covered with algaroba trees. This classification was made in order that the land board would be able to determine new rental values in offering the public lands for lease.

ISLAND OF HAWAII.

Waiakea.—The subdivision of a portion of Waiakea cane fields into homestead and house lots, approximately 2,000 acres in area,

was well advanced at the end of the period.

Waikaumalo-Maulua.—In order to conform with the amended land laws, relating to the disposition of Government land containing not more than 80 acres in area, it was necessary to subdivide three homestead lots in this tract, district of North Hilo.

OFFICE WORK.

Considerable office work is done in connection with the field work; that is, preparing data, computation, mapping, plotting, compiling descriptions of surveys, besides the regular routine work of furnishing data, descriptions of surveys, tracings, blue prints, and indexing the records, as well as accommodating the general public when they call to consult maps and records of the department.

BUREAU OF AGRICULTURE AND FORESTRY.

Forestry.—Toward conserving an adequate and steady supply of water for these islands where the main industries largely depend upon water for irrigation, the division of forestry has continued actively to protect the forest and extend them.

During the year new fences on established forest-reserve boundaries to keep stock from injuring the native forest have been constructed

and existing fences repaired.

On the several islands the six forest rangers have rendered efficient service. The elimination of wild cattle from the reserves has been pressed, and in one forest region alone on Hawaii 30 head of wild cattle have been eradicated by shooting and roping.

The Territory has been very fortunate during the year in the matter of forest fires, in spite of a very dry summer. Only three

unimportant fires were reported.

The work of extending the forest-reserve system has progressed by creating three new reserves and adding to the area of an existing reserve. The whole island of Kahoolawe, consisting of 28,260 acres of nonwater-producing land, was also withdrawn from the forest reserve so as to return it to the jurisdiction of the land commissioner who by law is in the only position to issue a license whereby the destructive goats on the island can be removed and the feed thereon utilized for fattening cattle for the market. The new reserves consisted of the Papapaholahola Spring on Kauai of 54 acres, the Waiahole on Oahu of 1,169 acres, and the Keauohana on Hawaii of 272 acres, and 263 acres were added to the Makawao Reserve on Maui. This brings the total number of forest reserves in the Territory up to 42, with a total area of 773,591 acres, of which 521,557 acres, or 69 per cent, is Government land.

Tree planting has progressed at the usual satisfactory rate and especial attention has been given to reforestation on water-producing

areas.

Under special authority granted by the last legislature a campaign for the protection of bird, animal, and vegetable life on the small islands off the windward coast of Oahu was begun. Trespass signs have been placed on the islands and to date 22 trespassers have been arrested and convicted.

Plant inspection.—The work performed during the past fiscal year

consisted of the following:

1. The inspection of all fruits, vegetables, and plants coming into the Territory from foreign countries and the mainland of the United States to prevent the introduction of pests and plant diseases.

2. The inspection of all fruits, vegetables, and plants going from Honolulu to the ports of all other islands for the purpose of pre-

venting the spread of any pest existing on Oahu.

The division of plant inspection was transferred to the new quarters on Kekuanaoa Street about January 1, 1918. All plant importations are now brought to the new building immediately upon their arrival in the Territory, thus doing away with the old method of opening these shipments on the various docks. The equipment is now such that the danger of introducing new pests has been reduced to a minimum.

The inspection of horticultural produce leaving Honolulu for ports on the other islands has been continued on similar lines to those of

last vear.

Entomology.—No new work in the way of exploring for and introducing beneficial insects has been undertaken since the organization of the division on July 1, 1917, as it is believed that the disturbed conditions caused by the war are unfavorable to the prosecu-

tion of such work. The beneficial insects previously introduced—including the fruit fly, melon fly, dung fly, and corn-leaf hopper parasites—have been propagated and distributed without interruption, although there is no question about their establishment in the islands.

The distribution of the different parasites during the year was: Fruit fly, 13,505; melon fly, 16,288; dung fly, 5,570; corn-leaf hopper,

264,800; or a total of 300,163.

It is gratifying to have confirmation of the increasing effectiveness of the fruit-fly parasites in the investigations of the United States Bureau of Entomology office in Hawaii, and the exceptionally large corn crop of this year testifies to the effectiveness of the leaf-hopper control when managed by progressive farmers. An introduction of 1917, a wasp brought from the Philippines to prey upon cockroaches, has become established in the islands.

Animal industry.—The rules and regulations covering the importation of live stock have proven effective in preventing the introduction of the many animal scourges which are causing enormous ani-

mal losses in other parts of the world.

Live-stock importations have practically been confined to purebred registered animals of the different classes for the continued improvement of the herds here. That considerable has been accomplished in this direction is evidenced by the fact that the Territory is now self-supporting as far as beef and pork is concerned and will soon become so as regards mutton. This improvement was further demonstrated by the unusually large and high-class exhibits of imported and island-bred animals of all classes at the recent Territorial fair.

Glanders has been entirely eradicated; epizootic lymphangitis, of which a small outbreak occurred on the island of Hawaii, is under complete control; tuberculosis has been reduced from 31.25 per cent to 2 per cent, and with the great help of the compensation law, which became effective last April, the complete eradication of this disease is now in sight; anthrax, which made its appearance last year on Kauai and was rapidly followed by one outbreak on Oahu and seven distinct outbreaks on Maui, is now under complete control. Total eradication has been accomplished on the islands of Oahu and Maui.

Marketing division.—The past year has been the most successful in the history of the division. Twenty-two hundred and thirty-nine consignments of different kinds of island products were received and sold for \$172,391.76, an increase of \$50,878.86 over last year's sales,

which were \$54,534.96 greater than the sales for 1915-16.

The bean crop last year was the largest the islands have produced. Most of these beans were marketed through the division at very satisfactory prices. As the Honolulu market was stocked with beans,

most of the red beans were shipped to the coast.

On the first of the year bananas were very plentiful in Honolulu, due to the shortage of shipping space, and the planters were losing hundreds of large bunches in the fields. In order to assist the producers, the division cooperated with the banana consuming propaganda committee of the Hawaiian Vigilance Corps in creating a local demand for all bananas which could not be shipped to the coast. The campaign proved successful, but in a short time more shipping space was available and the larger number of bunches shipped



to the coast left very few bananas for the newly created demand in Honolulu.

The retail meat and vegetable departments were discontinued on November 30, 1917, with the permission of the board of agriculture and forestry, under whose jurisdiction the division has been operated

during the past fiscal year.

At the special session of the legislature early in 1918 provision was made to transfer the division to a new Territorial marketing commission to be appointed by the governor, the above transfer to take place on July 1, 1918.

HAWAII AGRICULTURAL EXPERIMENT STATION.

The continued food shortage throughout the world has revealed more clearly than ever during the past year the great dependence of the island population on imported food products. Any interruption of shipping under such conditions immediately precipitates a disorganization in the distribution of food products. This has served to emphasize more and more the need of a greater production of locally grown food products. What the islands need perhaps more than anything else in an economic way is the development of diversified industries which will provide a surplus of edible manufactured products which can serve as articles of export during normal times and which in times of dire necessity can be readily utilized to feed the local population. It is recognized that in ordinary times it is impossible for a number of the food crops to be successfully raised in competition with similar mainland crops which can be brought to Honolulu at a price considerably below the cost of local production.

Emergency war gardens.—Throughout the year a great deal of attention has been given to the development of the war garden idea among those who became interested in doing something practical along food production lines. The station has continued to allot small plots of otherwise waste lands to its laborers for the purpose of enabling them to maintain demonstration war gardens to serve not only as a source of foodstuffs, but also to serve as object lessons to the inquiring public, several of these gardens being located im-

mediately in front of the station buildings.

Cooperation with military posts.—The military posts have continued through the broad policy of the commanding officers to contribute materially to the available food supply of the island through their system of company gardens. The United States Experiment Station has acted in an advisory capacity along food production lines. At a number of the posts as much as an acre has been assigned to a company and special details made for each company garden. These details ordinarily consist of individuals who have had special experience in market gardening and who are naturally enthusiastic in the work.

Cooperation with private growers.—Considerable attention has been given during the year to the development and furthering of cooperative relationships between the station and numerous private growers and concerns throughout the territory. In these arrangements the station provides the plan for some experiment or demonstration which promises to give valuable information to the section

in question. The necessary seed is usually furnished by the station

while the individual furnishes the land and labor.

Territorial fair.—Held primarily for the purpose of stimulating food production and food conservation, the Territorial fair was one of the most successful enterprises that has ever been launched in the islands. The result of the food production propaganda work of the past few years was demonstrated by the wide range of food crops placed on exhibit by the growers representing nearly a dozen different nationalities. The cooperation of the military authorities in the way of equipment, organization, and program events contributed very materially to the success of the undertaking. All the agricultural institutions of the islands presented practical exhibits of their work, looking either to the increased production of the local food supply or to its conservation.

One feature of no little interest was the daily exhibition of foods of the various nationalities, especially by the Japanese, Chinese, and Hawaiians who demonstrated such of their foods as they considered best adapted to be used as substitutes for wheat and other imported

articles of diet.

Another very gratifying source of exhibits were those entered by a number of the sugar plantations, showing the progress made looking to the putting of the said plantations on a self-supporting basis as regards the food supply for their laborers and the feed supply for their work animals: One of the largest plantations presented evidence to show that it has been able to produce practically all the concentrate and roughage feed required by the thousand or more work animals in use on its properties. Another plantation company showed an interesting exhibit demonstrating the possibility of the production of a form of alcohol from waste cane molasses for use as a substitute for gasoline. The same company has also through its diversified industries developed a corn-meal grinding plant, a small model of which was in operation at the fair.

Horticultural investigations.—The principal lines of work of the horticultural division have been concerned with the increased utilization of the banana, papaya, and tomato as food crops, especially promising varieties of which have been distributed as rapidly as propagating material could be made available. The division has continued to give every possible support to the school and home garden propaganda work which has been very actively under way through-

out the year.

One of the most promising lines of work has been a comprehensive test of numerous varieties of beans to determine the best not only for use as fresh string beans but also for use in commercial canning by the pineapple companies, which necessarily are not in active operation during a considerable portion of the year when pineapples are not in season.

An interesting experiment has been continued, looking to the development of a tomato resistant to the melon fly. Several hybrids between the normal size and various small-sized tomatoes have proved of good quality and sufficiently resistant to the fly to make a very welcome addition to the food supply of the islands.

Extension work.—A most important advance in the extension work of the islands was the appointment of a number of county agents by the Territorial food commission shortly after the outbreak of the

war. These agents were provided with automobiles and other means of transportation and have been most effective in bringing home to the producing public the best agricultural practices which have been worked out in the islands. It has been found that numerous isolated farmers have developed practical ideas which are with profit being adopted by the other farmers throughout the islands through the good offices of the county agents, who serve as a means of communication between the isolated farmers, thus enabling such valuable ideas to be exchanged.

Plant-disease investigations.—The rapid development of home and school gardens, together with the increased acreage planted to food crops, which has been produced on a large scale, has caused a material increase in the prevalence of various diseases and insect pests. These difficulties have been met as rapidly as possible through the determination of the most practical means of combating these various troubles. Probably the most serious disease which has developed during the year has been that designated as banana freckle or black-spot disease. This has continued to spread rapidly from the valley in which it was first discovered until at the present time it seriously threatens the entire banana industry. The major portion of the pathologist's time during the coming year will probably be spent in the attempt to formulate a practical means of arresting the spread of this disease.

Another serious trouble has been the taro rot, which has caused material losses to many of the taro growers of the islands. Through the cooperation of one of the largest land-holding companies of the islands cooperative experiments have been inaugurated looking to the development of practical means of controlling this disease.

The Irish potato continues to be affected by a number of troubles, including the late blight, early blight, mite disease, and the potato tuber moth. Practical methods for control of most of these various troubles have been worked out, and marked increases in yields have been repeatedly obtained by growers where the recommendations of the station were carried out as indicated.

Field and laboratory observations have revealed the presence of numerous miscellaneous fungous diseases and insect enemies of a

great number of the economic plants, especially food crops.

Agronomic investigations.—The agronomic work has been directed chiefly along the lines of the production of forage and feed crops for animals and food crops for man. The corn investigations have shown the variety introduced from Guam to be very resistant to the attacks of the corn leaf hopper and to give much higher yields than were obtained from any of the strains received from the mainland.

The work with the edible canna has been most promising, yields at the rate of over 40 tons of tubers per acre having been obtained eight and a half months after planting. The station has made numerous distributions of tubers to private parties, who have planted them for the purpose of utilizing them as temporary ornamental plants in their yards and to serve as an emergency source of food supply in case of necessity.

supply in case of necessity.

Glenwood substation.—The policy of the Glenwood substation has been changed somewhat during the past year as compared with that of previous years. Upon the recommendation of the experiment station the Hilo Board of Trade appointed a Glenwood substation



committee to keep in touch with the needs and activities of the substation and to serve as an intermediary between various interests, agricultural and otherwise, on the island of Hawaii and the Glenwood substation. The agricultural problems of the section in question are difficult and numerous, and the methods of approach are not always clearly indicated. The combined judgments of those having the policies of the substation practically in hand, combined with the counsel afforded by the board of trade committee, have done much to enable the station to carry on its work with a very satisfactory local support.

In addition to the experimental and demonstration work under way at the substation, the superintendent has spent two days of each week doing county agent work in the district surrounding the substation for about 20 miles in each direction. He has also kept in touch with the work being done by the territorial county agents in

the other sections of the island.

Publications.—Much of the information acquired by the station has demanded an immediate presentation to the public. In this work it is a pleasure to record the hearty cooperation which has been accorded by the newspapers throughout the islands in publishing the various articles submitted by the station's staff.

The following publications have been issued during the year:

Annual Report for 1917.

Station Bulletin 44, The Litchi in Hawaii.

Press Bulletin 53, Composition and Digestibility of Feeding Stuffs Grown in Hawaii.

Extension Bulletin 3, Emergency Series, I. Field of Production of Beans. Extension Bulletin 4, Emergency Series, II. Methods of Combating Garden

Pests.

Extension Bulletin 4, Emergency Series, 11. Methods of Compating Garden
Pests.

Extension Bulletin 5, Emergency Series, III. Peanuts—How to Grow and Use

Extension Bulletin 6, Emergency Series, IV. The Banana as an Emergency

Food Crop.

Extension Bulletin 7, Emergency Series, V. Drying as a Method of Food

Preservation in Hawaii. Extension Bulletin 8, Emergency Series, VI. Bean Spot Disease.

PUBLIC WORKS.

OAHU.

Improvements, judiciary grounds.—The legislature of 1917 appropriated \$2,500 for improvements to the judiciary grounds, but this was found to be inadequate and an additional \$2,500 was appropriated at the special session of 1918, making a total of \$5,000 for this project. It is the intention to rearrange the drives around the buildings, change the course of drive on seaward side of the judiciary building, reset existing curbing, paving, and sidewalks, and in general to improve and beautify the grounds.

New buildings for board of agriculture and forestry.—The department of public works has completed two buildings for the board of agriculture and forestry on Kekuanaoa Street, adjoining the Davies warehouse. The main structure houses the laboratories and offices, and the structure at the rear is divided into fumigating rooms, garage, and incinerator. These buildings are of a permanent type of reinforced concrete construction and are modern in every respect.

Normal Training School.—The new \$30,000 building for the Normal Training School is a two-story concrete and frame structure, the

outside walls being of reinforced concrete.

Territorial powder magazines.—Owing to the close proximity of the present Territorial powder magazine to the mobilization camp and Army post at Fort Armstrong, and other destructible property in case of an accidental explosion, the Federal Government has granted the Territory the use of a portion of Sand Island for the storage of high explosives, and three buildings have been constructed on this site.

Moving Davies warehouse.—The Davies warehouse, formerly situated at the corner of Kilauea and Halekauwila Streets, was moved a distance of about 100 feet, to Kekuanaoa Street, and is now occupied. The reason for the change in location of this building was to provide for the extension of Bishop Street seaward to Allen

Street and the water front.

The structure is of brick, 100 feet long, 50 feet wide, and about 34 feet high. The total weight of the building is about 1,400 tons. This building was successfully moved on rollers to the new location without in any way injuring the walls or interior.

New Territorial penitentiary.—The new Territorial penitentiary, Kalihi-kai, Oahu, is now practically completed and has been occupied

since April of this year.

Waikiki reclamation.—The legislature of 1917, act 231, provided for the appointment by the governor of a commission composed of the superintendent of public works, the city and county engineer, the commissioner of public lands, and two others, this commission to be charged with the preparation of a comprehensive reclamation scheme for the Waikiki lands. This act also appropriated the sum of \$20,000, or as much thereof as was necessary to defray the expenses incurred by the commission in making requisite surveys and preparing plans and specifications and securing other essential data for the project.

During the special session of the legislature, 1918, the sum of \$100,000 was appropriated for the furtherance of this project in order that the reclamation work might be commenced without delay. Consequently, upon the formal adoption of an approved scheme and the completion of plans and profiles, actual work is expected to be

proceeded with at once.

Abstracts of titles of about one-half of the properties within this area have been acquired by the Territory. In this project, as in no other undertaken by the Territory in recent years, the department of public works, the United States Government, and the city and county combined, are proceeding with an undertaking of inestimable value to the people of Honolulu in reclaiming a most insanitary and unsightly portion of the city.

MAUI.

Reclamation of Lahaina swamps.—During the period June 30, 1917, to June 30, 1918, there has been only one improvement project of any importance carried out under the supervision of the department of public works on this island. This project, known as the reclamation government swamp lands, Lahaina, Maui, consisted of

the construction of drainage canals and storm sewers designed to care for all storm and ground water, and of placing and grading the quantities of fill materials required to reclaim and place in a sanitary condition 11½ acres of swamp lands located in the town of Lahaina. The project was completed in December, 1917. The reclaimed land has been set aside as a public park and playground for the town of Lahaina.

KAUAI.

Waimea River embankment.—The 1917 legislature, act No. 185, provided, with certain qualifying restrictions, for the expenditure of not to exceed \$50,000 to defray the cost of continuing construction on the Waimea River embankment.

This project, which provides for the completion of flood protection for the lands adjacent to this section of the Waimea River, is of

much importance to this district on Kauai.

Preliminary work on this project, consisting of field engineering, property surveys and descriptions, plans and specifications, has been completed and the cost defrayed from funds remaining from the 1915-1917 appropriations of \$15,000. All data required as a preliminary to the sale of the lands are now on file in the office of the superintendent of public works.

BOARD OF HARBOR COMMISSIONERS.

Pier No. 2, Honolulu.—The status of the Pier 2 project, described in the Annual Report of 1917, is practically the same as at the time that report was written. The 1917 legislature authorized a sale of bonds, under the loan-fund act, which would have provided funds for this work. Due to conditions brought about by the war it has not, however, been deemed advisable to date to place these bonds on sale, and consequently only work of a preliminary nature, involving minor expenditures, has been performed.

Pier No. 6, Honolulu.—General maintenance and repair work on this pier during the 1917-18 period has consisted mainly of repairs to roof and roof drainage, minor repairs to cargo doors and deck

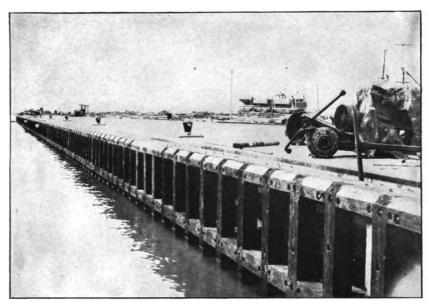
planking.

Piers 8, 9, and 10, Honolulu.—This project, one of the most important ever handled by the Territorial board of harbor commissioners, both from a commercial and financial standpoint, and one of the largest water-front terminal projects in the Pacific, has recently been completed and has for some time past been utilized for

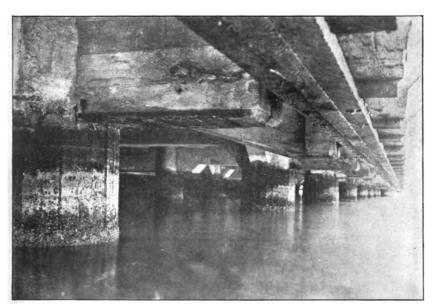
the berthing of vessels.

The portion of the Honolulu water front now covered by the new piers was originally occupied on the Ewa side by the old Oceanic Pier used for many years by the Oceanic Line vessels for all their Honolulu trade, and was one of the more important trans-Pacific landings. The seaward side was taken up by small slips of various depths and was available for the smaller vessels engaged in interisland traffic only. The Waikiki side on the slip Ewa of Pier No. 7 was unimproved and was of no commercial value to the Territory.

The water-front improvement covered by this contract consists of three reinforced concrete bulkhead wharves, viz, Pier No. 8, 597 feet



PIER NO. 9, CONTRACT NO. 24, COMPLETE WITH BRUNNIER FENDERS IN PLACE.



SUBSTRUCTURE PIERS NOS. 8, 9, 10. TAKEN JUNE, 1918

666---1

clear length, 36 feet 4 inches wide along the Ewa side of the Alakea wharf slip; Pier No. 9, 611 feet clear length, 36 feet 4 inches wide along the channel and parallel with the harbor line; Pier No. 10, 552 feet clear length, 44 feet 4 inches wide, running mauka from Pier No. 9 along the channel and parallel with the harbor line, a total available berthing space of 1,760 linear feet, and a total area of 75,358 square feet serving a general cargo shed area, now under construction in part, of approximately 221,000 square feet. The berthing space along the entire water-front section occupied by these piers is dredged to a depth of 40 feet below datum and will accommodate the largest

vessels engaged in the Pacific trade.

History.—This project was authorized and financed under the loanfund act by the Territorial board of harbor commissioners in 1915.

Preliminary subaqueous surveys of the site, including test borings,
were made, and plans and specifications were prepared by the engineering office of the board in 1915, and the contract was awarded to the
Lord-Young Engineering Co., of Honolulu, on October 9, 1915. Active
operations began about March 15, 1916, and were continued until December 30, 1916, when the contractor was instructed to cease operations pending the report of a committee of engineers employed to
investigate certain construction detail questioned by the contractor.
Certain recommendations of this committee and certain suggested
changes recommended by the engineering office of the board were incorporated in the contract as an extra under the contract provisions
for extras and additions. Work was resumed actively about April
30, 1917, and the contract was satisfactorily completed and final payment made on April 10, 1918.

Following is a statement of cost data which is of very considerable interest:

Contract awarded Lord-Young Engineering Co Deducted from Lord-Young Engineering Co. for changes and de-	\$285, 000. 00
duction in constructions	\$21, 831. 33
Actually paid Lord-Young Engineering Co. for work on regular contract	\$263, 168, 67
Paid Lord-Young Enginering Co. for extras and additions to con- struction under terms of contract	\$75, 358. 06
Total paid contractor for job H. C. 24, complete and as accepted by	•
the Government Total cost of all overhead and inspection expenses, including cost	\$ 338, 526. 78
of diving crew and pro rata cost of main office	\$25, 340. 05
Percentage of overhead to entire projectper cent	7.48+
Cost of plans, specifications, prints, etc.	\$5, 514. 06
Percent of plans, specifications, prints, etc., to entire proj-	
ectper cent	1.65+

As an engineering achievement this project has brought forward many problems of interest to engineers engaged in water-front terminal construction.

The structure as originally designed called for cast-in-place cylindrical concrete columns 36 inches in diameter to support the deck and superstructure. These columns were to be cast in caissons driven to satisfactory bearing material; or failing to secure such material, placed over pile clusters designed to carry the necessary loading. Bottoms of caissons were to be sealed with concrete, caissons pumped out, and the concrete for the columns placed in dry forms.

This system was thoroughly tried out at the beginning of construction operations and was found to be impracticable, due to the underlying coral formation. While not absolutely impossible, it was found to be very difficult and extremely expensive to seal and pump out the caissons on account of the hydraulic pressure exerted through the bottom. The underlying coral was not only very uneven, but full of subsurface holes and passages which were almost impossible to close.

In view of these it was considered advisable to change the method of constructing and placing the carrying columns. The "precast cylinder" system was investigated and adopted, the contract being thus modified by mutual consent. This system worked out very satisfactorily and was used for the entire project. Concrete cylinders, with a wall thickness of 4 inches, with lengths from 12 to 42 feet, and diameters of 36 inches in the barrel (with a bell base 72 inches in diameter and approximately 60 inches in length) were east in a horizontal position, using steel cores and built-up wooden outside forms.

Very extensive experiments were made to secure a suitable mixture for the concrete and the formula 1:2:2½, viz: One part Portland cement, 2 parts crusher sand tempered with about 10 per cent of coral sand, 2½ parts of No. 3 crushed stone, plus 10 per cent by volume of cement of hydrated lime was selected and used throughout. The reinforcement (½-inch square twisted rods made up on 1½ by ½-inch rings of such diameter that the rods when fabricated came in the exact center of the wall concrete) was secured in place in the forms very carefully, great care being used in placing and tamping the concrete and seeing that it was alway 3 of the proper consistency. These cylinders, after curing for 30 days, were moved about freely by rolling on the curing skids and were handled by derrick without any evidence of cracks or failure.

Cylinders varying in weight from 5 to 16 tons were handled and placed from an ordinary floating derrick very economically, and no difficulty was experienced in tremieing the core with an average head

of 8 feet on the concrete.

One of the greatest difficulties encountered in this project was the driving in location of the carrying piles for the columns. The specifications required clusters of from four to six piles each, either driven to refusal or to a bearing value of 25 tons based on the Engi-

neering News formula $P = \frac{2 \text{ W L}}{3+0.1}$. These pile clusters were required to be driven inside of a circumference in no case exceeding 5 feet in diameter, and in about 30 per cent of the cases they were driven (top of the pile below datum) at a depth of approximately 37 feet. This difficulty was very satisfactorily overcome by driving the piles in a "can," i. e., a metal pipe of sufficient length to allow one end to rest on the bottom and the other end to project above the surface of the water. The can and follower used were both handled by donkey lines run over the driver head and were very efficiently worked by the contractor. Divers were used in placing the toe of the can on location and in inspecting the piles after driving. Notwithstanding all the difficulties encountered, these piles were driven and handled, including overhead, which was high, at an average cost of \$0.19 per linear foot for piles ranging in length from 6 to 30 feet.

Very considerable difficulty was encountered in excavating in the coral ledge where same occurred on cylinder locations. In a very large percentage of cases the underlying coral ledge lay in planes whose surfaces were at an acute angle with the horizontal. This coral was an old formation many feet thick and extremely hard. It was found to be almost impossible to either spud or drill by ordinary methods on account of the almost invariable drifting of the bit. This difficulty was effectively met by the use of the "can," as explained for pile driving. A specially constructed chisel-point steel bit weighing about 2,500 pounds was used for this work. This bit was operated from the pile-driver head sheaves, and, working inside the can, it was possible to locate and hold a hole under almost any condition.

Wharf walls on the inland side of the piers were designed to perform the functions both of retaining the back fill and supporting the deck slab and superstructure. There was very considerable controversy as to the efficiency of the design, but it has satisfactorily filled

all requirements.

This wall on piers 8 and 9 has a varying depth below datum of from 10 to 27 feet and extends upward to elevation 7. In designing, shear forces at the bottom are cared for by both timber piles, where piles could be driven, and by bulk-weight friction between the wall and the bearing materials, which consisted mainly of coral sand, black sand, and coral ledge. Where coral ledge occurred steel rail sections were driven for dowels to replace timber piles. Overturning movements acting against the top of the wall were adequately cared for by the portal action of the bent haunches and by anchoring the top of the wall to the paving slab over the fill on the inland side.

The wall as described for Piers No. 8 and No. 9 was placed in water by the Tremie method from a floating plant. All concrete was tremied under a head of concrete sufficient to displace the sea water and to insure against any detrimental action caused by free mixing of sea water. Forms were built on shore or on the floating plant and were placed in sections by diving crews. The results obtained by these methods were economical as to cost and uniformly satisfactory.

Underlying material conditions on Pier No. 10 were found so radically different from those on Piers No. 8 and No. 9 that the design, by mutual consent under the contract, was changed to provide for gravity section walls run dry in cofferdams. These wall sections were in no case carried to exceed 14 feet below datum, and except for the difficulty in sealing the cofferdams over coral formations, no

unusual or difficult conditions were encountered.

The deck was designed to carry a live load of 500 pounds per square foot plus the dead load plus the superstructure load. Carrying columns are spaced approximately 20 feet by 15 feet on centers, and the regular type of concrete detail was used throughout. Square twisted bars or their equivalent were used throughout for both slab and beams. Shiplap surfaced one side was called for for all slab forms. Concrete in the deck and deck-framing members was cast in sections, run monolithic in a continuous daylight shift, using a mixture of 1 part cement, 12 parts crusher sand + 2 part coral sand, and 32 parts No. 3 crushed stone. The results obtained from this

mixture have proven to be satisfactory. The deck has been loaded to far beyond its designed capacity without showing any signs of failure, and the curing cracks which invariably occur in work of this

kind are neither large nor excessive in number.

The plans for this project provided for the "Brunnier patent" hanging spring fenders which are well known and extensively used on Pacific coast wharves. These fenders are especially adapted to wharves of rigid construction, as all shock forces set up by contact with vessels is taken up and cared for by the coiled spring of the fender system. Oil and water lines with valve outlets spaced at convenient intervals for service, and adequate in size to serve vessels at all three piers at one time are provided.

Fireproof freight and passenger sheds having a combined area of 221,000 square feet, provided with automatic fire protection, water-front railway service and cargo-handling equipment, are being designed and a contract with the Lord-Young Engineering Co. (Ltd.), who were also the original contractors, for all water service, roof and subdrainage, shed paving, and superstructure foundations

is well under way.

PUBLIC UTILITIES COMMISSION.

Investigation by the Public Utilities Commission of Hawaii was begun on August 26, 1916, for the purpose of considering passenger tariff No. 2 and freight tariff No. 2 of the Inter-Island Steam Navi-

gation Co. (Ltd.).

This investigation was a general one into the affairs of the company and not merely a hearing on specific complaints. A complete report on this investigation appears in the Fifth Annual Report of the Commission for the year 1917. The commission ordered the Inter-Island Steam Navigation Co. (Ltd.) to reduce all charges for the carriage of passengers and freight to not to exceed the rates and classifications which were in effect on the 1st day of August, 1916, said rates to take effect on or before October 15, 1917.

The order of the commission was also issued requiring the company so to amend its freight tariff that shippers of less-than-quantity lots should in no case pay more than the minimum charge for quan-

tity lots.

The company noted and perfected an appeal from the order of the commission to the supreme court of the Territory of Hawaii, but made no attempt to take advantage of the statutory provisions providing for a stay of the order appealed from. The company failing to obey the order of the commission, the commission obtained an injunction restraining the company from violating the terms of the

The supreme court of the Territory of Hawaii reversed the order of the commission on the ground that the commission was without jurisdiction over the rates of the company, exclusive jurisdiction over the rates and charges of the company being in the Shipping Board created under the provisions of act of Congress of September 7, 1916,

known as the shipping act.

INDUSTRIAL ACCIDENT BOARDS.

Under an act entitled the workmen's compensation act, the legislature of 1915 created industrial accident boards for the various counties. This act was amended in 1917, the principal amendment providing that beginning with July 1, 1918, a standard form of accident policy, prepared by the insurance commissioner, should be adopted by the various companies. This standard policy is now in use.

For some months during the early part of the fiscal year work of these boards was halted by a decision handed down by the first judge of the circuit court of the first judicial circuit, who held that the act was unconstitutional. The case wherein ruling was made was carried to the supreme court, which reversed the decision of the lower court, and on December 11, 1917, handed down a decision pronouncing the act constitutional. During the interim a considerable portion of the employers continued to file the usual returns, making careful and adequate adjustment of the various claims as indicated under the act, this voluntary compliance apparently attesting the favorable reception of the act by a large proportion of the business people of the Territory. The reports were informally accepted and filed subject to future consideration upon the advice of the governor, the acting attorney general, and the Territorial auditor.

the governor, the acting attorney general, and the Territorial auditor. The Honolulu board received during the fiscal period a total of 2,690 first reports of accidents, 28 of which were fatal and 19 of which resulted in permanent partial disabilities. In a little less than one-half of these accidents reported no compensation was paid beyond the medical bills, these averaging \$10.30 and aggregating \$14,000. During the 12 months an aggregate sum of \$44,233.44 was awarded in compensation for death claims alone. Eighteen permanent partial disabilities were compensated in a sum total of \$9,115.26. These are exclusive of the large number of claims for minor accidents causing disabilities for long or short periods where the injured employee is totally disabled for work.

LOAN FUNDS.

The governor is empowered by legislative act to appoint a commission for each county and the city and county consisting of the superintendent of public works, the mayor or chairman of the board of supervisors, and three other persons who are residents of the county or city and county in which public improvements are to be performed from funds loaned to the county or city and county by the Territory. Such commissions are known as loan-fund commissions.

During the past year the Kauai Loan-Fund Commission has held no meetings and made no expenditures. No loan-fund appropriation was made for Oahu during the 1917 legislature, and the only work that remains to be done under the 1915 appropriation is to install a sewer pump in Kalihi District, Honolulu, which has already been ordered.

HAWAII LOAN-FUND COMMISSION.

The legislature of 1917 appropriated \$70,000 for the continuance of the road work at Keamoku, Hawaii, which had been under way for more than a year. Work was continued along the same line as previously by asphalting the portion of sub-base already laid until January 1, 1918, when it was decided to abandon for a while the macadamizing and asphalting and to extend the sub-base and filler as rapidly and as far as possible, so as to afford the traveling public a hard and safe road over a long stretch of desert, instead of a short, finely finished road with the remainder in a deplorable condition and absolutely impassable at times. On June 30, 1918, the sub-base was completed a distance of 3.16 miles for the six months. The total road will be 5.21 miles in length, of which 2.05 miles will be asphalt macadam and 3.16 miles will be sub-base and filler.

MAUI LOAN-FUND COMMISSION.

During the year the commission saw the completion of two contracts, the macadamizing of a portion of the Haiku-Pauwela-Kuiaha-Kaupakalua Roads and the excavation of the Olinda Reservoir. The commission also entered into a contract for the construction of the Olinda Reservoir lining.

SCHOOLS.

At the end of the fiscal period the number of pupils enrolled in the public schools was 34,343, an increase of 6.4 per cent. The following table shows the percentages of attendance for the last three years:

	June, 1916.	June, 1917.	June, 1918.
Oahu. Kauai Hawaii Maui Molokai	94.7 91.7 93.9 93.0 91.8	94. 9 95. 2 94. 2 88. 6 94. 3	94. 9 94. 0 92. 4 90. 4 93. 0
	93.4	93.4	93.1

Table of increases for the last five years.

Year.	Enroll- ment.	Increase,
7une, 1914	26, 990 28, 827 30, 206 32, 282 34, 343	Per cent. 5.3 6.8 4.7 6.9 6.4

Expenditures for public schools, by fiscal years, since organization of Territorial government.

				·		Per pupils.		
Fiscal year.	Schools.	Teachers.	Pupils.	Maintenance.	New build- ings.	Mainte- nance.	Total.	
1901 1902 1903 1904 1905 1906 1906 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918	143 144 147 154 153 153 154 153 156 166 161 188 170 171 168 168	352 389 396 399 414 435 441 476 493 486 523 582 674 713 735 804 855 967	11, 501 13, 189 13, 793 14, 487 15, 202 16, 119 17, 138 18, 564 19, 507 19, 909 20, 567 23, 752 36, 990 28, 827 30, 205 32, 282 34, 343	\$358, 925. 72 364, 374. 72 393, 502. 64 400, 048. 94 336, 358. 59 261, 458. 99 349, 933. 14 467, 555. 05 446, 832. 60 470, 176. 08 479, 351. 19 630, 334. 65 677, 799. 72 742, 310. 63 772, 146. 88 899, 501. 33 898, 047. 78 1, 079, 693. 16	\$8, 773. 37 12, 121. 54 10, 411. 02 96, 513. 7. 257, 387. 12 61, 270. 87 75, 169. 88 88, 932. 17 86, 075. 94 4, 243. 41 4, 243. 41 4, 22, 577. 92 268, 741. 78 77, 208. 85 60, 441. 42 127, 271. 01 98, 209. 83 173, 905. 20	\$29. 05 28. 12 28. 52 28. 52 22. 42 20. 41 25. 18 22. 90 23. 55 23. 27 26. 44 27. 50 28. 79 29. 78 27. 81	\$29. 76 29. 28 34. 94 38. 05 26. 22 24. 89 29. 97 27. 31 24. 34 36. 93 30. 33 30. 33 30. 33 30. 33	

SUMMARY.

	Schools.		Teachers.	Pupils.			
		Male.	Female.	Total.	Male.	Female.	Total.
Public schools	168 57	144 81	823 249	967 330	19,248 8,953	16,095 3,348	34, 343 7, 301
Total	225	225	1,072	1,297	22, 201	19, 443	41,644

Comparative table by nationality of pupils attending all schools in the Territory, . June 30, 1918.

Nationality.	Public.	Private.1	Total.
Hawaijan Part-Hawaijan American British Perman Portuguese apanese Rinese Porto Rican Korean Joanish Korean Linejan	\$, 216 \$, 805 849 103 1,26 5, 001 15, 101 8, 806 1, 902 409 125 626 151	\$99 1,384 1,024 74 1,220 1,315 1,129 68 181 49 30 72 45	8, 905 5, 189 1, 877 183 197 6, 221 16, 416 4, 434 1, 100 544 538 155 608
Total	34, 843	7, 301	41,644

¹ December, 1917, latest report

Percentage of enrollment by nationality, June 30, 1918.

Nationalit i es.	ment	tage of , all : 30, 1918.	enroll- schools,	Percent- age of en- rollment.	Increase 1917– 18, public schools.		Decrease 1917– 18, public schools.	
	Public.	Private.	All.	public schools.	Num- ber	Per cent.	Num- ber.	Per cent.
Hawatian Part-Hawatian American British German Portuguese Japanese Chinese Porto Rican Korean Bpanish Kussian Filipino Other foreigners	2. 04 . 25 . 30 12. 01 86. 26 7. 94 2. 48 . 98 1. 18 . 30 1. 51	1.66 3.32 2.46 .17 2.93 3.16 2.71 .16 .32 .11	9. 38 12. 46 4. 50 . 47 14. 94 39. 42 10. 65 2. 64 1. 30 1. 29 . 37 1. 68	9.34 11.08 2.47 .32 .37 14.56 43.97 9.62 3.01 1.19 1.43 .37 1.83	85 279 11 257 1,297 243 48	3. 64 11. 94 .47 11. 00 55. 53 10. 40 2. 05 .65 3. 93 .39	29 61 11 174	10. 55 22. 18 4. 60 63. 27
Total	84. 47	17. 53	100.00	100.00	2, 336	100.00	275	100. 00

COLLEGE OF HAWAII.

Notwithstanding the unsettled conditions resulting from the war, the College of Hawaii continued to make healthful progress. Attendance increased markedly, there being nearly three times as many studying for degrees as in 1914-15.

By nationality the 143 students were classified as follows:

Caucasian	97	Hawaiian or Part-Hawaiian	6
Chinese	23	Korean	2
Japanese	18	Hindu	2

Summary of students.

Years.	Regular under- graduates.	Graduate students.	Special students.	Extension students.	Total.	Total work- ing for credits.
1914-15.	21	8	41	79	144	65
1915-16.	83	6	66		105	105
1916-17.	42	2	66		110	110
1917-18.	59	2	82		143	143

The number of degrees granted in 1918 was twice as great as in any preceding year.

Nationality of graduates.

1912:		1916:	
Caucasian	8	Chinese-Hawaiian	1
Chinese	1	Caucasian	1
1913:		1917: Caucasian	3
Caucasian	4	1918:	
Japanese	1	Hawaiian	1
1914: Caucasian	4	Caucasian	1
1915:		Chinese	6
Caucasian	1	Korean	1
Japanese	2	Japanese	1

A number of enlisted men from local army posts have taken technical courses during the year to assist them in examinations for commissions.

The campus has been noticeably improved and beautified by the extension of the lawns and by the growth of the many tropical and subtropical trees, shrubs, and climbers. The tillable land of the farm has been increased by the clearing of some 11 acres, which will be planted to forage crops and experimental crops.

Territorial appropriations, July 1, 1917, to June 30, 1918.

Appropriation—Maintenance and expenses		\$9, 500, 00
Expenditures	SR 851 44	40, 000, 00
Balance June 30, 1918	2 849 58	
Datance June 30, 1610	2, 010. 00	9, 500, 00
Ataklan Calarias instructions and amplement		
Appropriation—Salaries instructors and employees		32, 500. 00
Salaries	10, 741. 04	
Balance June 30, 1918	16, 758. 46	
•		82, 500. 00
Appropriation—Building, grading, and improvements		12, 000. 00
Expenditures	11, 363. 39	
Balance June 30, 1918	636. 61	
		12, 000, 00
SPECIAL FUNDS.		,
Receints:		
Balance forwarded	8, 71	
Sundries	5, 130, 89	
Oun(II 162	0, 100. 08	5 100 A0
There are Aldress as		5, 139. 6 0
Expenditures:	4 000 50	
Sundries	4, 996. 72	
Balance forwarded	142. 88	
·		5, 139 . 60
FEDERAL FUNDS.		
Receipts:		
Balance forwarded	28, 47	
Installment for 1917-18		
		50, 028, 47
Expenditures:		00, 025, 11
Sundries	50 027 45	•
Balance forwarded	1. 02	
Paramo Tal Matacatter transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer to the same transfer transfer to the same transfer	1.02	X0 000 45
•		50, 028. 47

INDUSTRIAL SCHOOLS.

From the special legislature of 1918, \$9,000 was obtained to cover the increased cost of maintenance during the last year and the un-

expected increase in the number of juveniles.

There are two industrial schools under the supervision of the board—one for boys situated at Waialee, on the northern shore of the island of Oahu, and one for girls at Moiliili, a suburb of Honolulu. These institutions at present receive and care for all the juvenile delinquents, who are not paroled or put on probation by the juvenile court in Honolulu or the circuit judges of the outside islands, who also sit as juvenile judges. Instruction at these schools is chiefly of a vocational nature, and the children receive a portion of their earnings.

Boys school.—The school is ideally located. The grounds consist of about 700 acres of which 550 are tillable, the remainder being

mostly pasture land.

The ideal of the school is more than ever to prepare those in its care for a useful life by developing a personal ambition and a positive interest in the life of each.

The institution is on the self-government basis, which has proved

an important factor in conduct and morale.

The boys earn their way out of school by a credit system which has been established on a satisfactory basis during the year. Five thousand credits make a boy eligible for parole. Before small boys can be paroled, their parents or relatives must guarantee that the boys will attend school; for older boys positions must be obtained. Boys thus leaving the school must also report regularly to a parole officer.

The school is organized on a military plan. This includes military instruction, gymnasium classes, athletics, lectures, and a military band, which has appeared in public on several occasions during the

past year.

The boys are given academic and industrial training. The teaching of agriculture as an ultimate occupation has not been found successful, but farming is carried on sufficiently to supply the needs of the school. The trades department furnishes the most important part of the practical education. The shops and equipment are strictly modern and represent a valuation of more than \$30,000. There is a blacksmith shop, woodworking and electrical plant, and a complete machine shop. Repairs and improvements are made by the boys, and in several instances outside work has been successfully under-A 50,000 gallon concrete reservoir, and a cottage have been completed, the older buildings put in fair repair, and an ice plant installed by the boys themselves.

By the approval of the board 400 acres of land heretofore uncultivated are now being planted in pineapples, and arrangements are under way for the planting of about 50 acres in sugar cane. As much of the cultivation as possible is being done by the boys.

Girls' school.—The girls' school is established on the cottage plan, which has proved efficient and satisfactory, giving opportunity to segregate the girls and helping to remove the idea that the school is solely for punishment. Aluminum money is used instead of credits, with which the girls are required to purchase all clothing and incidentals needed at the institution.

Thorough and practical academic and industrial training for each girl is an aim of the school. Branches other than academic now taught are music, domestic science, sewing, tatting, crocheting, knitting, rag-rug weaving, lauhala weaving, mattress making, physical culture, and agriculture. The agricultural classes look after the grounds and gardens. Entries were made at the Territorial Fair from these departments and the girls won 11 prizes.

Much has been accomplished during the year in improving and beautifying the grounds. The playground is well equipped and various games are taught. Entertainments and outings have been

given.

Daily devotional exercises are held at the school. There is an active Red Cross unit, and the girls entered into the spirit of conservation and have cheerfully cooperated with the faculty in eliminating wheat and other war necessities from daily use.

There has been a larger number of girls paroled this year than usual, and most of those leaving go to work in the homes of Honolulu.

Industrial schools, 1917-18,

	Inmates, June 30, 1917.	Inmates, July 1, 1918.	Admitted during year.	Re- leased.	Released on parole.	Re- turned from parole.	Average number of in- mates.	Cost per inmate perday.	Num- ber of in- struct- ors.
Boys' school	162 95	169 126	145 57	18 36	123 28	19 15	174 121	. 84 . 66	16 13
Total	257	295	202	54	151	34	295		26

LIBRARY OF HAWAII.

Despite many war demands on the leisure time of adults, there has been a slight gain in the use of books, the records showing a large reading of books pertaining to the war and to history and social problems of the countries involved.

Registration now totals 8,197, adults being 56.4 per cent of this number and children 43.6 per cent. The increase in registration over last year was 870, or 11.8 per cent. Home use of books totalled

107,877, which was an increase of 10.3 per cent.

Visitors to the reading rooms numbered 53,780, an increase of 1,219. A decrease in the reference library visitors was noted, which is accounted for by the war demands upon adults, the small number of tourist visitors and the departure from Honolulu of many Army people who were patrons of the library.

Splendid gains were shown in the children's department. In July an arrangement was made with the library at Portland, Oreg., for an exchange of librarians for a number of months. Special stress has been laid on school visiting and the securing of fuller coopera-

tion from teachers.

The islands department has a total of 163 stations, 40 being community libraries, 53 school libraries, and 70 home libraries. The increase of stations in the year was 11. The distribution is as follows: Hawaii, 29; Kauai, 43; Maui, 39; Oahu, 45; Molokai, 6; and Midway, 1. By legislative appropriation for the islands department which became available one year ago, the need of books is being relieved and the beginning of a fine collection has been made.

ARCHIVES OF HAWAII.

Calls are made on the office from time to time for the bills as introduced in the legislature, and in most cases the number of the bill is not known, and in some the knowledge of where the bill originated is also lacking, and considerable searching is necessary to locate what is wanted. To remedy this an index has been made of all bills introduced during the sessions of 1915 and 1917.

Work on the revision of the Hawaiian Dictionary has continued during the period; it has progressed as rapidly as consistent with accuracy, and has reached a point where a start can be made on the printer's copy, for which work a very efficient clerk has been engaged. It will be several years before the completed work is published. In the meantime it will be necessary to secure an additional appropriation to carry it on.

A large amount of information, on a variety of subjects, has been furnished the departments and the general public, during the period, and the promptness with which the bureau has been able to do this, in most cases, has been a subject of favorable comment.

The records of the third and fourth circuit courts have been segregated, indexed, and filed, making these documents available for ready

reference.

THE COURTS.

TERRITORIAL COURTS.

The territorial courts are composed of a supreme court of 3 members; 5 circuit courts, of which I has 3 members, who sit separately, and the others 1 member each; and 29 district courts. The supreme court and circuit court judges are appointed by the President and the district magistrates by the governor of the Territory. The circuit courts are the courts of general original jurisdiction. They try criminal, law, equity, probate, and divorce cases. The first circuit court acts also as a court of land registration. The circuit and district courts act also as juvenile courts, the principal juvenile court being presided over by one of the judges of the first circuit court.

The following tables show the cases by courts, classes of cases, and

nationality of convicted in criminal cases:

Court statistics, calendar years.

TOTAL CASES IN ALL COURTS.1

	1915	1916	1917
Criminal cases	12, 199	12, 131	14,455
	3, 465	3, 066	4,525
Total. Convictions in criminal cases. Percentage of convictions.	15, 664	15, 197	18, 980
	9, 439	9, 572	10, 305
	77	77	71

1119 insanity, 824 juvenile court cases not included.

CASES CLASSIFIED BY COURTS.

	1915	1916	1917
Supreme court Circuit courts. District courts.	87 1,745 13,832	83 1,544 13,570	84 2, 139 16, 757
Total	15,664	15, 197	18,980

CASES IN SUPREME COURT.

On appeal, error, or exceptions: Law Equity Divorce Probate Criminal Original Miscellaneous	37 13 2 2 2 11 10	26 15 4 3 17 6	34 16 3 9 1 2
Total	87	83	84

Court statistics, calendar years—Continued. CASES IN CIRCUIT COURTS.

	1915	1916	1917
Civil: Law Equity Divorce Probate Miscellaneous	438	290	297
	103	64	122
	410	407	434
	331	341	506
	9	2	8
Total. Criminal	1,291	1, 104	1,369
	454	440	770
Grand total	1,745	1,544	2, 139
	348	288	839
	76	74	44

CASES IN DISTRICT COURTS.

Criminal	2,098	1,896	3,081
	11,734	11,674	13,676
Total. Convictions in criminal cases. Percentage of convictions.	9,091	13,570 9,284 79	16, 757 9, 966 72

RACES OF PERSONS CONVICTED.

Races.	Estimated population June 30, 1918.	Number convicted, 1918.	Percentage of popula- tion con- victed, 1918.
Hawaiian. Chinese. Japanese White (including Portuguese)	38, 960 22 250 106, 800 56, 920	1,076 1,114 3,408 1,000 3,703	2.76 5.00 3.19 1.75
Others	56, 920 31, 260	3,703	11.52
Total	256, 180	1 10, 301	4.84

¹ Four corporations were convicted for "failure to file annual exhibits" not included in the total of "nationality of persons convicted."

CONVICTIONS IN CRIMINAL CASES, BY CLASSES OF CASES.

	1915	1916	1917
Offenses against property Offenses against chastity Offenses against the peace Gambling Liquor selling, etc.	620	461	492
Offenses against chastity	313	422	278
Offenses against the peace	1,038	1,045	964
Gambling	4,482	5,012	6, 010
Liquor selling, etc	106	143	97
Drinkenness	742	802	651
Homicide	17	1 13	1 13
Miscellaneous	2, 122	1,674	1,800
Total	9, 439	9,572	10, 306

¹ Homicide, 1916, manslaughter, 2; murder, 11. Homicide, 1917, manslaughter, 2; murder, 11.

JUVENILE COURT.

The principal court handling juvenile cases is located in Honolulu, being presided over by one of the circuit judges of the first circuit, who is assigned for that purpose by the Chief Justice of the Supreme Court. The circuit judges of the other circuits, and to a small ex-

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tent the district magistrates throughout the Territory, sit as juvenile judges. There are several salaried officers employed in this work besides a number of volunteers.

Dependents are placed in private homes, private institutions and public institutions by the judge of the juvenile court. Delinquents not paroled are committed to either the boys' or girls' industrial schools, where their work and education is of a vocational nature

and partially self-sustaining.

The number of cases coming before the juvenile court of Honolulu during the fiscal period were 688. Of these 490 were boys and 198 girls. Of the boys 411 were delinquent and 79 dependent cases. Boys included 137 Hawaiian, 72 Chinese, 42 Japanese, 108 whites, including Portuguese; and 44 of all others; the girls, 62 Hawaiian, 52 Portuguese, 8 Japanese, 12 Chinese, and 37 of all others. Of the delinquents, 272 boys and 44 girls were placed on probation, 74 boys and 16 girls were dismissed, and 65 boys and 22 girls were committed to the industrial schools. Of the dependents, 5 boys and 14 girls were committed to the industrial schools, 42 boys and 62 girls to charitable institutions, 25 boys and 34 girls to private homes, and 5 boys and 7 girls were dismissed.

The charges were as follows: Assault and battery, 35 boys and 3 girls; curfew, 9 boys and 2 girls; disobedience, 33 boys and 24 girls; gambling, 28 boys; idle, 2 boys; larceny and kindred offenses, 136 boys and 5 girls; truancy, 108 boys and 14 girls; and other offenses,

60 boys and 33 girls.

LAND COURT.

One of the judges of the first circuit is assigned to land-court cases by the chief justice of the supreme court. During the fiscal year 28 applications were filed, while 44 pending remained at the close of the last fiscal period; 32 decrees were issued, including an area of 3,098.348 acres, while 37 petitions were held pending registration, with an area of 4,003.104 acres. The assessed value of the lands included in titles registered is \$574,343, while the value of that held pending registration is \$248,476.39. The total value of lands included in titles registered and pending registration is \$822,819.39.

Fees were collected to the amount of \$5,159.80, of which \$1,070.88

was for the assurance fund.

FEDERAL COURT.

The Federal court located in Hawaii is a United States district court, with the jurisdiction also of a United States circuit court. There are two district judges, a United States district attorney and assistant affiliated with this court.

The civil cases brought in this court during the last fiscal year numbered 67, comprising 31 bankruptcy, 11 admiralty, 2 United States civil, 5 other civil, and 18 habeas corpus cases, as compared with 51 cases for the preceding year, comprising 16 bankruptcy, 12 admiralty, 12 United States civil, 4 other civil, and 7 habeas corpus cases.

Criminal cases numbered 209, as against 51 for the previous year, accounted for as follows: Unlawfully importing, etc., opium, 32; adultery, 3; making or presenting false claims, 2; stealing, etc., on United States reservation, 1; violation of white-slave traffic act, 3; narcotics, 2; illicit distilling, 1; violation of tariff act of October 3, 1913, 2; violation of postal laws, 3; depositing nonmailable matter in post office, 3; selling intoxicating liquors to members of United States Army, 47; impersonating United States officer, 1; espionage, 2; keeping bawdy house, 9; setting fire to vessel of United States, etc., 1; unlawfully wearing uniform of United States Army, 18; gambling on United States reservation, 1; failure to register for draft, 60; conspiracy, 3; transporting intoxicating liquor, 15.

Convictions to the number of 185 were secured in the criminal cases, 8 were acquitted, 4 cases nolle-prossed, and 12 cases are

pending.

ATTORNEY GENERAL'S DEPARTMENT.

The attorney general is the legal adviser of the heads of the departments, the high sheriff, the district magistrates, other public officials in all matters connected with their public duties, and the many Territorial boards. Much of this work consists of drawing up or passing upon forms of contracts and bonds of contractors with the Territory, deeds, licenses, patents, and other documents relating to land transactions, corporation charters, etc. The nature of this work prevents its being reported in detail as it is as broad and varied as the work of the several departments.

During the year the department handled two cases in the United States District Court; 12 in the Supreme Court; 34 in the Circuit Court; 14 in the Tax Appeal Court; 50 in the Land Court; 27 in the

District Court of Honolulu, and two in other district courts.

Of these cases, 3 are still pending in the United States District Court, 23 in Circuit Court, 20 in Land Court, and 2 in other district courts than Honolulu. This makes 93 cases finished and 48 cases pending.

TERRITORIAL PRISON.

This year saw the completion of the new prison and its occupancy. All felons, all Federal prisoners, both misdemeanants and persons awaiting trial, as well as felons, are retained in the Territorial prison.

The warden of the Territorial prison is also high sheriff of the

Territory.

The total of days imprisonment for the twelve months ended June 30, 1918, was 230,251, divided into 226,976 criminal prisoners and 3,275 committals. This makes a daily average of 622 criminal prisoners for the year and 9 committed persons, or a total average of 631. During the preceding year the average was 533 prisoners. The daily average for this year thus shows an increase of 98.

For the year the daily average of sick was 1.58 per cent.

Total expenditures were \$83,910.50, divided into \$55,968.22 for expense and maintenance of prisoners and \$27,945.28 for pay of guards and physicians.

Daily cost of support, maintenance, and custody for each prisoner

was 61 cents for the period.

Considerable attention has been given to the sanitary conditions of the prison, and regular examinations of all buildings and cells are made weekly. Food is excellent in both quality and quantity, and answers all requirements for food value and nourishment, according to the work required of the prisoners.

All prisoners are given a preliminary medical examination upon first entering, particular care being used to guard against the bringing of contagious or infectious diseases to persons already in prison.

Six deaths occurred among prisoners during the year. Two died

of disease and four were executed according to law.

The 1917 legislature enacted a law for the payment of prisoners and appropriated \$15,000 as prisoners' compensation for the biennial period beginning July 1, 1917. Payment in no case is to exceed 25 cents a day for a prisoner, and no prisoner is to be eligible for pay until he has served three months of his sentence.

Supervision of the payment system is under the attorney general, the warden, and the prison inspectors, all of whom constitute a pris-

oners' compensation board to classify, grade, and fix payments.

Reports at the end of the first year show that the plan is meeting good success and, together with the "honor system," is doing much in forming character among the prisoners, giving them a desire for promotion through hard work and good conduct. The prisoners are cheerfully performing more and better work than formerly, and the improvement in their conduct is marked.

With two exceptions no prisoners have drawn more than half their earnings, and a large number are allowing their earnings to ac-

cumulate against the day when liberty is granted them.

PUBLIC HEALTH.

Although an analysis of the year's mortality and morbidity statistics reveals an increase of 512 in the number of deaths and 178 in the number of cases of contagious diseases over the previous year, the health of the Territory may be considered to have been good and the rates compare favorably with communities of similar size on the mainland.

Nine physicians—six Americans, two Japanese, and one Swiss—successfully passed the examinations of the board of examiners during the year and were recommended for license to practice medicine and surgery in the Territory. A number of the physicians of the Territory have responded to the call of their country and are either members of the Medical Reserve Corps or medical examiners on draft boards.

During the months of May and June the new regulation for the

control of venereal diseases was in force.

Vital statistics.—In order to figure the mortality and morbidity rates it is necessary to have the population, and as there has been no United Staates census taken since 1910 the number of people in the Territory has had to be estimated from year to year. From all available data it is estimated that the population of the Territory is ap-

proximately 256,180, divided as to nationality and counties as is' shown in the following table:

Honohulu Oahu (outside of Honohulu) Hilo Hawaii (outside of Hilo) Maul Kamai	Populatio	County.
fani	75,0 41,5	Ionolulu
Kauai		Mani
Kalawao	38,5 31,0	Causi

Early in 1918 Mr. R. C. Lappin was sent here by the Census Bureau to make a survey of birth and death records, and the results were such that Hawaii was admitted to the registration area as to deaths but not as to births. Mr. Lappin made a number of valuable suggestions whereby the reporting of births could be made more complete, and they were adopted. It is believed that it will be only a short time before the registration of births will be complete enough and the Territory can be admitted into the registration area.

The total number of deaths in the Territory during the past year was 4,010, an increase of 512 over the previous year. A study of the principal causes of death and an increase in the number of deaths from external causes account for a large proportion of these deaths. The annual death rate per 1,000 of population was 15.65. The number of deaths from external causes was 315 in the Territory, an increase of 51, and if these are excluded we have an annual death rate per 1,000 of population of 14.42 from disease alone. In the city of Honolulu there were 1,395 deaths, an increase of 126 over 1916-17. This gives a death rate of 18.60 per 1,000 of population as compared with 17.64 in the previous year. In the city of Hilo the deaths numbered 263, giving a death rate of 24.93. The increase in the number of deaths in Hilo was 54. In Honolulu the number of nonresidents who died was 182, while in Hilo they numbered 92. Deaths in Honolulu from external causes were 115, an increase of 34 over the previous year. Of the total number of deaths in the Territory, 1,041 occurred in hospitals or other institutions.

Deaths by counties.

County.	Total.	Death rate.
Honolulu. City and county of Honolulu. City of Hilo. Hawali (exclusive of Hilo City) Kalawao. Kalawao. Maui.	1, 395 530 263 713 80 396 633	18. 60 12. 77 24. 98 12. 09 117. 65 12. 77 16. 44
Total	4,010	15.65

Deaths by nationalities.

American 164 British 27 German 27	227	7. 47
Russian 9 Chinese 9 Filipino 1 Hawaiian 1 Japanese Korean 1	1, 363 73	14. 88 17. 84 38. 64 12. 76 14. 60
Asiatio Hawaiian. Cancasian-Hawaiian. Portuguese. Porto Rican. Spanish. Others.	180 331 98 42 28	17. 21 13. 65 17. 98 18. 50 42. 42
Total	4,010	15.65

Births.—The total number of births reported at the office of the registrar general during the past year was 9,404, an increase of 697 over those reported the previous period. There were several causes for this increase in birth reports; among those which might be mentioned are the following: Cooperation of the superintendent of public instruction, who requested all school-teachers to report any births which might have occurred in the families of the children they were teaching; the placing of placards in all plantation camps and villages notifying the people of the law requiring the report of births; and also the fact that since the outbreak of the war a large number of young men have had to obtain, in connection with the draft, proof as to exactly when they were born.

The birth rate per 1,000 population was 36.71 for the Territory,

as compared with 34.75 for 1916-17.

The following tables give the births and birth rate by counties and nationalities:

Births by counties.

County.	Total births.	Birth rate.
Honolulu City and county of Honolulu. Hilo City.	3,034 1,441 474	40.4 84.7 44.9
County of Hawaii	2,010 16	84. 1 23. 5
Kauai	1,019 1,410	48. 5 36. 6
Total	9,404	36.7

Births by nationalities.

American	s h	1
British 65	مرد النا	12.68
German	16	18.90
Russian 20		
Chinese	. 666	29.93
Filipino	456	22.35
Hawalian	635	27.79
Japanese	4,579	42.87
Korean	-1 -7	36.60
Asiatic-Hawaiian		63.65
Caucasian-Hawaiian	633	60.52
Portuguese	1,048	43.22
Porto Rican	237	45.59
Spanish	161	70.93
Others		46.97
Total	9,404	36.71
	,	1

Norg.—Total Japanese births reported to the Japanese consulate, 5,0%. Increase to those reported board of health, 407.

Marriages.—The total marriages reported in the Territory during the past year were 2,572, a decrease of 190; while in Honolulu, instead of being more as it was last year, there were 417 less.

Principal causes of death.—The 15 principal causes of death resulted in 2,902 of all the deaths in the territory, or 72.36 per cent.

These were as follows:

Cause.	Total deaths.	Rate per 1,000 popu- lation.
Distribes and enteritis. Tuberculosis (all forms) Broncho-pneumonia. Premature birth, congenital debility, and other causes peculiar to early infancy. Organic diseases of the heart Lobar-pneumonia. Cerebral hemorrhage, apoplexy. Bronchitis, acute and chronic. Cancer (all forms) Bright's disease. Berl berl Syphilis. Whooping cough Leprosy (54 in leper settlement).	324 223 183 175 153 145 140 130 89 77	2, 35 1, 32 1, 26 2, 37 71 65 66 60 60 57 85 85 85 80 80 80 80 80 80 80 80 80 80 80 80 80
Total	2,902	72.86

The total number of deaths under 5 years of age were 1,717, which is 42.81 per cent of the entire mortality of the Territory. Of the 1,717 deaths just mentioned, 1,358 occurred under 1 year of age. The increase for the Territory of deaths under 1 year of age was 221, and for Honolulu 31.

Cause.	Total.
Diarrhee and enteritis.	57 28
Broncho-pneumonia Premature birth, congenital debility and other causes peculiar to early infancy Acute bronchitis.	22 12
Whooping cough	
External causes sphilis Lobar-pneumonia	
Malformation Puberculosis (all forms)	

A campaign for the education of mothers has been carried on here for a number of years, not only by the board of health but by the Palama Settlement and other organizations, but this will have to be prosecuted much more vigorously if the infant mortality is to be reduced.

Morbidity statistics.—There were 2,039 cases of contagious and infectious diseases reported during the past year, an increase of 178 cases over the previous year. In cerebrospinal meningitis, enteric fever, leprosy, whooping cough, tuberculosis, and chickenpox an increase is noted, while in the other diseases a decrease is found. The large number of cases of typhoid at Schofield Barracks, due to the water infection and carriers, respectively, and the increased number of cases of tuberculosis reported more than accounts for the increase over the previous year.

The number of cases of contagious and infectious diseases reported by islands is as follows: Oahu, 1,287; Hawaii, 382; Maui, 152; Kauai,

207; Molokai, 11.

All cases of typhoid and paratyphoid were removed to hospitals as soon as discovered, and in addition, at Waipahu, Oahu, a large number of the laborers and their families were immunized against typhoid. This measure had the effect of stopping the spread of the disease in this district.

Medical inspection of schools.—The work of this bureau during the past year has been carried on the same as in the previous period with the exception that the work in the outside districts on Oahu was done

by the Government physicians.

In Honolulu all the children in 23 public schools were examined. The pupils examined numbered 10,847, which was 199 more than the previous year, and of this number 1,790 were vaccinated. The number of defects found were 8,631, which was 851 less than 1916–17. The greatest number of defects were found in the teeth, and in all cases the children were advised to consult a dentist, but in cases where it was found that the children could not afford to pay a dentist they were sent to the Palama Settlement. The defects were classified as follows: Defective teeth, 5,482; enlarged tonsils, 1,500; adenoids, 357; pediculosis, 532; skin cases, 105; Porto Rican itch, 77; defective eyes, 157; nutrition, 308; tuberculosis suspects, 16; defective heart, 9; ring worms, 2; contagious diseases, 47; defective ears, 16; asthma, 3; adenitis, 14; dislocated hip, 1; fractured arms, 2; nystagmus, 1; abscess of axella, 1; eczema, 1; total, 8,631.

A survey made of the school children on the island of Hawaii resulted as follows: Defective teeth, 1,421; enlarged tonsils, 876; nutrition, 69; skin diseases, 325; defective eyes, 107; defective ears, 22;

adenoids, 50; anemic, 13; adenitis, 11.

The number of defects recorded among the children of Kauai were 3,528, as a result of the survey, segregated as follows: Defective teeth, 1,600; enlarged tonsils, 1,203; adenoids, 143; skin diseases, 99; Porto Rican itch, 16; defective ears, 14; adenitis, 111; pediculosis, 115; nutrition, 142; contagious diseases, 6; defective eyes, 54; conjunctivitis.

25; total, 3,528.

Pure Food Bureau.—Conditions arising since the outbreak of the war have increased the importance of this bureau and have also greatly increased the amount of work to be performed. The work covered almost every variety of food and drugs. The milk supply, condition of food in restaurants, the large quantity of questionable salt salmon, the adulteration of bay rum, inspection of canned goods and other foods are among the many activities of the bureau which might be mentioned. Assistance was given the Army, Navy, United States District Attorney, and the United States Food Administrator.

Insane Asylum.—At the end of the fiscal year, June 30, 1917, there remained in the institution, paroled or escaped, 257 males and 98 females, a total of 355. During the year 74 males and 18 females were admitted. The total number under care and treatment was 331 males and 116 females, or a total of 447. The maximum number of patients at any one time was 359 while the minimum was 340. The number of deaths during the year were 41 of which 30 were males and 11 females. Four patients escaped but one of them returned after three days. During the year 34 males and 10 females were discharged as

recovered and 16 males and 1 female as improved. On June 30, 1918, there were 251 males and 94 females in the institution or on parole.

Cerebral apoplexy, paresis, chronic nephritis, syphilis, and acute mania were responsible for most of the deaths. One death from pellagra is noted and several other cases are at present in the institution.

During the year the female employees and patients made 404 denim jackets, 241 denim pants, 205 sheets, 226 pillow slips, 114 dresses, 48 chemises, 45 drawers, 4 petticoats, and 2 straight-jackets. An exhibit of articles made by the patients was shown at the fair and

caused very favorable comment.

The diet of the patients has been as far as was possible that which was laid down by the Food Administrator. The meatless days have been observed and on these days fish has been substituted. As more than 50 per cent of the patients are "rice eaters" there has been a comparatively low consumption of wheat. Corn meal, corn flour, barley flour, and beans have been used as substitutes for wheat. Of course there have been some cases which required a special diet. About two acres of green vegetables were grown and there was sufficient taro grown for the institution.

The buildings have been kept in repair and some painting has been done. One thousand five hundred feet of water-bound macadam road was built to give access to the sanitorium. The doctor's cottage and treatment building at the sanitorium were completed and this

institution was opened for patients on May 1, 1918.

Antituberculosis bureau. The work of the bureau has been carried on along similar lines to that of previous years, but an effort has been made to have better supervision over the cases. During the year there were 937 cases reported as against 900 the previous year. This number added to the 1,991 cases at the beginning of the year makes a total of 2,928 cases handled by the bureau in some manner during the year. There were 466 deaths, while during the year 432 cases were removed from the register because they had either left the Territory, were apparent cures, or could not after a diligent search be located. Of the new cases 714 or 26.2 per cent are under the personal supervision of the nurses or in sanitariums. During the year the nursing staff made over 10,600 visits. There were two nurses on Oahu and one nurse on each of the other islands, with at times an extra nurse on the island of Hawaii. In 370 cases the nurses were able to obtain economic statistics, and this survey showed 34 independent as to means, 122 were wage earners, while the balance, 214, were indigent. In 43 of the cases reported to the bureau it was ascertained that tuberculosis had existed previously in the family. As many cases as the appropriation would allow were maintained in the various hospitals.

Over 52.1 per cent of the new cases came from Honolulu and the island of Oahu. To some extent the medical inspection of recruits under the draft law was responsible for the showing of an increased

number of cases.

Cases by nationality.—The Hawaiians showed a decrease of 39 cases, or 16 per cent. The number of cases among the Portuguese was 20 more than last year. There were 7 less cases among the Japanese, a decrease of 2.2 per cent. The Chinese, Korean, and Filipinos showed an increase of 34.4 and 51 cases, respectively. Other

nationalities showed a decrease of 20 cases or 54 per cent. Of the new registered cases 309 were born in Hawaii, 503 in Asia, 44 in Europe, 22 in America, and 52 cases the birthplaces are unknown. As to length of residence, 9 were residents less than six months, 10 less than a year, 30 less than two years, 62 less than five years, and the remainder over five years.

Leprosy.—On June 30, 1918, the number of lepers living at the settlement was 608, an increase of 21 from the previous year. The following tables give the leper population at Kalaupapa and

Kalawao during the year.

`	Male.	Female.	Total.
Number of patients living in the settlement June 30, 1917	358 61	229 26	587 87
Total	420	256	676
Number of patients reexamined and released on parole	1 42	25	1 67
Total. Number of patients remaining in the settlement June 30, 1918.	43 377	25 231	68 606

Nationality of patients remaining in the settlement.

	Male.	Female.	Total.
American	2		2
Belgian. Chinese.	1 25		1 25
Filipino German Hawaiian	2	2 157	12 4 367
Bapanese	. 12	l ii	18 12
Part-Hawaiian Portuguese	64	57 14	121 47
Porto Rican Spanish	2 2		. 2
Total	377	231	608

These people were housed in the different homes and in cottages outside: Baldwin Home, 101; Bishop Home, 54; Bay View Home, 65; McVeigh Home, 12; General Hospital, 21; and outside the homes, 355.

Of nonleprous children the number living at nursery July 1, 1917, was 20; number of births during year, 15; sent to relatives, 2; sent to homes in Honolulu, 16; died during year, 11; remaining in nursery June 30, 1918, 6.

On July 1, 1917, there were 24 male and 15 female kokuas at the settlement, and 1 male and 3 females were admitted during the year, making a total of 43. During the year 1 male and 2 female kokuas were discharged, and one of each sex died, leaving 23 male and 15 female kokuas at the settlement at the end of the period. Other well persons living at the settlement were 31 males and 19 females, a total of 50. This makes the total population of the settlement 702.

The census of live stock owned by the board shows 19 horses, 671

head of cattle (65 oxen included), 30 donkeys, and 136 hogs.

Kalihi hospital.—There were 56 males and 24 females examined during the year and declared lepers; 1 male and 2 females released on parole were reexamined and declared lepers; while 1 patient was readmitted for breaking parole. The nationality of those declared lepers was as follows: Chinese, 6; Filipino, 6; German, 1; Hawaiian, 39; Japanese, 5; Korean, 3; Norwegian, 1; Part-Hawaiian, 16; Portuguese, 5; Porto Rican, 1; total, 83. Locality was as follows: Honolulu, 30; Oahu (exclusive of Honolulu), 6; Hawaii, 37; Kauai, 5; Maui, 5; total, 83.

Kalihi Boys' Home.—On July 1, 1917, there were 37 boys living at the home and 9 were admitted during the year, while 6 were discharged, leaving at the end of the present year 40 boys remaining in

the home.

Kapiolani Girls' Home.—Sixty girls were living in the home on July 1, 1917, and 7 were admitted. During the year 5 were discharged and 2 died, leaving at the end of the year the same num-

ber as at the beginning.

Resident Physician-Leper Settlement.—Dr. W. J. Goodhue, who as resident physician for the past 16 years has faithfully performed his duties and cared for the patients at the settlement, gives a very full report of his work and the results which have been accomplished. The use of chaulmoogra oil combined with tonics has been the main treatment. He also performed a number of major and minor operations.

United States Leprosy Investigation Station.—The work of this station has been carried on at Kalihi under its director, A. A. Surgeon H. T. Hollmann, and has consisted mainly of laboratory investigations and animal experiments. A number of papers have been written and submitted to the bureau, but as yet have not been published. Through the assistance of President Dean, of the College of Hawaii, the station has been enabled to administer chaulmoogra oil in a new form and with very gratifying results.

United States Public Health Service.—Surgeon F. E. Trotter, chief quarantine officer, has as always given the board assistance whenever called upon. The use of the quarantine station and crematory has been of great help to the department. In Washington Surg. Gen. Rupert Blue, Asst. Surg. Gens. McLaughlin, Perry, Creel, Warren, and Schereschewsky, also Surg. George W. McCoy

were of great assistance in many ways.

The following letters cover some of the work in leprosy investigation by the United States Public Health Service during the year:

Honolulu, Hawaii, June 30, 1918.

Dr. J. S. B. PRATT,

President Territorial Board of Health, Honolulu, Hawaii.

Sir: I have the honor to submit a brief report of some the work of this station which has been carried on at the laboratory in Kalihi, Honolulu.

Surg. Donald H. Currie served as director until July 26, 1917, on which date he was transferred to Boston, and I assumed charge.

During the year in addition to the treatment of your patients at Kalihi Hospital I have made the following:

Cultural studies.—The bacillus of leprosy was cultivated from the leprous tissues of a number of patients under treatment.

Numerous attempts at the cultivation of the rat leprosy bacillus were also made.

Animal inoculations.—During the year it was found that the leprous tissue inoculated into guinea pigs sooner or later was entirely absorbed without involvement of any of the internal organs.

Two calves were inoculated with leprous tissue, and at this time, six months after the operation, there are distinct nodules at the site of inoculation. This is the first time, so far as I can learn, that an attempt to inoculate calves has been made.

Immunity studies.—The blood of nearly all the patients has been examined from time to time for the presence of leper bacilli.

Wassermann and other complement defection tests have been made on the blood of the patients.

Since June 1, 1918, on which date your bacteriologist was mobilized with the National Guard, I have endeavored to place all the facilities of this laboratory at your disposal in caring for your public health laboratory work.

Respectfully,

HARRY T. HOLLMANN, Director.

HONOLULU, HAWAII, June 29, 1918.

Dr. J. S. B. PRATT,

President, Territorial Board of Health, Honolulu, Hawaii.

Sir: I have the honor to render a report of the Kalihi Hospital medical department for the fiscal year ended June 30, 1918.

	Male	Female.	Total
Patients under treatment during the year Patients under treatment July 1, 1917. Patients admitted during the year Patients paroled. Deaths during the year Transferred to Molokai Transferred to Japan Patients under treatment June 30, 1918. Examination board (official) during the year Declared lepers. Declared nonlepers. Reexamination board for parole Release on parole Not warrant to parole. Cases paroled from Molokai (reexamined) declared lepers.	92 34 58 7 4 61 11 19 61 58 3 11 7	47 21 26 2 26 1 16 27 26 1 5 26 27 26 23 26 27 28 28 28 20 20 20 20 20 20 20 20 20 20 20 20 20	139 55 84 9 6 87 2 35 88 84 4 16 9 7

I examined 167 persons unofficially for leprosy and also 1 for parolement at Kalaupapa, Molokai, during the year.

One patient paroled from Kalihi Hospital last year was recommitted to the hospital.

Medical treatment.—The majority of the patients received chaulmoogra oil and Lugol's iodine solution internally—20 cubic centimeters of the oil and 8 cubic centimeters of the iodine solution daily.

Intramuscularly.—With the assistance of Dr. Dean, professor of chemistry at the College of Hawaii, we have isolated four different fatty acid fractions from chaulmoogra oil and, in the form of ethyl esters, have administered them intramuscularly with the most encouraging results, as will be seen from the following table:

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Case.	Age.	Туре.	Acid used.	Treated.	Result.
1	20		Α		
3	31	Nod	A	6 months	Slight improvement.
3	25	Nod	A	00	Marked improvement.
4	55	Nod	A	do	Improvement.
5	10			do	
6	- 9			do	
7	12	Nod		6 weeks	No improvement.
8	9			12 months	
9	11	Aresth	В	do	No improvement.
10	40	Nod	B	6 months	Flight improvement.
11	28			do	Improvement.
12	45			do	
13	36	Nod	C	do	Do.
14	19			do	Do.
15	42	Nod	Č	do	Slight improvement.
16	60		Č	00	Marked improvement.
17	33			12 months	
19	46	Nod		6 months	
• • • • • • • • • • • • • • • • • • • •	20	1104	~	o mionomona	peared from nearly all lesions.
19	19	Nod	ס.	do	Do.
20	36	Nod	Ď	do	Do.
21	14	Nod	A B C D	3 months	Marked improvement. No bacilli can
			,, 0, 15		be found in the site of the old lesions.
22	21	Nod	A. B. C. D.	do	Improvement
23	17	Nod	A' B' C' D	do	Improvement in nodular lesions symp-
	••		,, 0, 1		toms caused by nerve involvement
1				l l	not improved.

Unfortunately I am unable to obtain a sufficient supply of these acids to place more than 20 patients on them. My supply of the acids depends on the gratuitous time Dr. Dean is able to give to the chemical isolation of these acids. I would recommend to you, Mr. President, that if possible a chemical assistant be placed on medical pay roll to work under Dr. Dean and my direction in the isolating of these in sufficient quantities to place all the cases at Kalihi Hospital on them.

Locally.—Trichloracetic acid applied locally to the leprous lesions has been found to be superior to the carbon dioxide snow. Its application is not nearly so painful, the subsequent inflammatory reaction is more marked.

Sunlight treatment of leprous ulcerations.—During the past year heliotherapy has been practiced in those intractable ulcerations of the skin that so frequently occur in those cases of leprosy in which the nerve involvement is marked.

Surgical treatment.—During the year 14 surgical operations were performed under general anesthesia; 2,030 surgical dressings were applied under the

supervision of the trained nurse, Mrs. Kay, R. N.

In conclusion, I would call your attention to the need of a medicated bathhouse at Kalihi Hospital in order that the patients can have the benefit of the various hot medicated baths.

Respectfully,

HARRY T. HOLLMANN.

The following letter covers the medical and surgical work at the leper settlement for the period:

To the President and Members of the TERRITORIAL BOARD OF HEALTH, Honolulu, Hawaii.

DEAR SIB AND GENTLEMEN: Herewith I respectfully submit for your consideration a report of the medical and surgical department of the leper settlement for the period ended June 30, 1918.

Regular patients on chaulmoogra oil and guaiacol comp. show an increase over the period of the last report and tabulated monthly as follows:

	Male.	Female.	Total.
1917, July	22	19	41
August	22	19	41
September	19	15	34
October	34	19	53
November	34	19	53
December.	34	19	53
1918, January	32	18 1	50
February	32	18	50
March	32	18	50
April	32	18	50
May	83	19	52
June	35	19	56

The average of above hypodermic treatments given for the period of this report are 4,656.

Of these patients 36 are also taking chaulmoogra and guaiacol comp. per orem. Other cases on the chaulmoogra oil and guaiacol comp. per orem in the various homes, hospital, and general settlement number 40.

Cases on chaulmoogra oil plain, which can not well be administered other than by mouth, number 14.

Total number of patients on chaulmoogra oil in some form including hypodermic medication number 275.

I have to note one case on the Varham preparation of chaulmoogra oil hypodermically. There is unquestionably some improvement in this case but not any greater, nor perhaps as marked, as the improvement noted in respect to the other cases on the regular chaulmoogra oil and guaiacol comp. injected and per orem.

Other special treatments, together with those noted above, tabulate as follows:

	Male.	Female.	Total.
Chaulmoogra ofl per orem. Chaulmoogra ofl and gualacol comp. per orem	97	47	144
Chaulmoogra oil and guaiacol comp. per orem	51 36	25	76
Trichloracetic locally	36 18	19	55 32
Trichloracetic, locally Semerak paste and ointment, locally	5	2	7
CO ₃ . Scott's emulsion C. L. oil	17	16	33
Scott's emulsion C. L. oil Waterbury's C. L. oil w/I. Q. S.	19	14	33 25
I. Q. S. phosphates	14	11	25 15
Strychnine sulphate Lugol's solution	10	61	16
Lugol's solution	2	15	17
K. I	10	5	15
Sajodin	12	10	1

It may be noted under the treatment with Fowler's solution that this is given as a regular treatment for certain phases of the disease, where it seems to be indicated, and as a special treatment in cases of lepromatitis (leprous bacillemia) in which allment it seems to be especially efficacious in conjunction, of course, with local remedial measures, such as cooling lotions and baths.

Cases on tonsillar cauterization and other treatments for tonsillar affections number 53.

Those include phenol, C. P. neutralized with alcohol, copper sulphate applied with pencil, and other astringent and antiseptic applications.

Cases of leprous rhinitis treated with various suitable applications principally through atomization number 96.

Personal calls made by the physician under respective headings below number as follows:

Baldwin home	144
Bishop home	240
Hospital	405

REPORT OF THE GOVERNOR OF HAWAII.	093
Aseptic surgical dressings at hospital	1, 001 630 1, 344 5, 676 8, 002 7, 248 35 226 to de- e with above
RECAPITULATION.	
Total number of patients on chaulmoogra oil in some form, including hypodermic medication	homes er and eneral one of on. icated shouse
Number of inmates June 30, 1917	51
Cases admitted during the period: 82 Medical 28 Surgical 28	
 -	60
Number of deaths14 Number of discharged	91
Number of inmates June 30, 1918Number of prescriptions filled	20
Number of postoperative and other surgical dressings	5, 676

Number of operations performed: Major28	
Minor103	
	131
Greatest number of inmates any one time during the period	51
Number of patients treated medicinally for the disease	2 6
Number of patients treated surgically for the disease	131

In connection with the above hospital report it should be noted that while the greatest number of inmates at any one time in the hospital for the period of this report numbered 51, 23 of these were removed to the Bay View home when this new home was opened on July 6, 1915, or five days after the beginning of the period of this report, leaving 28 inmates of the hospital after the 6th of July, 1917.

A number of minor surgical operations are performed in the hospital, whom it is not required to admit there for residence temporarily, while an almost equal number of minor surgical cases are operated upon at the Kaluapapa dispensary operating room, and a few major surgical operations are performed in private dwellings.

NURSLING HOSPITAL.

The following data with reference to the Nursling Hospital may be noted:

	Male.	Female.	Total
Number of babies June 30, 1917	11 8	9 7	20 15
Deaths during the period	5 1	5	35
Deaths during the period Stillborn Number of babies discharged during the period: To Boys' Home, Kalihi. To Kapiolani Girls' Home. Relative outside. Number of babies June 30 1918.	9 2 2	7	18 6
			35

The matron and nurses at the Nursling Hospital have been untiring in their efforts to give the best care possible to the inmates of this institution. Six of the total deaths during the period were due to enteric infections, which, it is well known, are especially severe when attacking infants on artificial diet, when the same have been from birth removed from mother or wet nurse.

Three cases of acute infantile marasmus are noted among the causes of death in the above total, which condition is frequently met with, as also noted in previous reports, among children born here. I am glad to state that among those above noted as discharged, and also those remaining in the nursery at the date of this report, all appear to be healthy and robust youngsters.

The Nursling Hospital was constructed and first occupied September 17, 1908, and since that date all infants born have been segregated immediately upon birth and taken care of in this institution until sufficiently old to be removed to one of the various homes in Honolulu.

The following data will illustrate at a glance the value of this institution, showing the great difference between the number of children infected with the disease since this system of segregation was instituted, as against the number infected previous to that time under the old system:

riod	Percent- age.	Male.	Female.	Total.
amber of children admitted in the Nursling Hospital from its epening September 17, 1908, to the present time		92	75 1	1 167 1
oe noted the secentage infected of those segregated from birth in the Nurs- pital for the sumber of children born in the settlement previous to institu-	0.0064	114 15	104 10	218
days after tember of above infected with the disease. the hospin recentage infected of those born in the settlement previous to institution of above segregation. Frand total number of children born in the settlement from inception of any record.	. 1146	198	176	374
in the bosin inception of any record. If you have a grand total number of children infected. If you have a grand total percentage infected. If at the h. A verage of births in the settlement for the last 10 years, or ations are ye.	. 0695 154	15	ii	26

¹ Of the total above noted of 167 admittances, 8 males, 3 females, a total of 11 were born previous to the opening of the nursery, and are therefore not figured in percentage of those infected since inception of nursery.

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1.7

70

. . .

New Bay View Home.—These buildings are a credit to any institution, and when all of the various buildings constituting this home are completed there will be accommodation for 96 without overcrowding in the least.

There are at present—July 1, 1918—66 inmates, 41 males and 25 females, and the institutions is under the immediate and efficient management of Mr. and Mrs. Hart

Epidemics.—Happily, no epidemics have to be recorded for the period of this = report, although it will probably be impossible to prevent the infection of influenza, which is now raging on some of the other islands, from making its appearance here in the near future.

New inmates.—Under the above heading I have the following to record:
Eighty-nine inmates entered the settlement during the period covered by this rep. (.

	Male.	Female.	Total.
From Kalihi Hospital, Oct. 6, 1917. From Kalihi Hospital, June 23, 1918. From Leeward Molokai, May 2, 1918. From Leeward Molokai, May 23, 1918.	18 29 1	82 8	50 37 1 1
			89

From Leeward Molokal two suspects—one male, one female—voluntarily waived examination at Kalihi and entered settlement May 2 and May 23, 1918. They were not either of them advanced cases, but still showed unmistakable signs of the disease, and bacteriological examinations of the same proved positive.

One of the new inmates who entered the settlement October 6, 1917, male, and who was about to have been paroled while in Kalihi, was on November 15, 1917, examined by Drs. Hollmann and myself, and paroled on December 6, 1917.

Sanitation and hygiene.—A great amount of necessary work has been carried on in this department, details of which may be seen in the table below.

Reexamination.—It may be of interest as well as of considerable referential and statistical value to here review the total number of reexaminations of lepers of the Molokai Leper Settlement made since my incumbency here in 1902, both of those segregated and sent to Kalihi receiving station for reexamination, and also of those examined here at the Molokai institution, together with results and data relating to the same:

PIRST.

Date: 1903.

Residence: Leper Settlement. Molokai.

Place of reexamination: Leper Settlement, Molokai.

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Board of examining physicians: Drs. McDonald and Goodhue.

Number reexamined, 54.

Results:

Nonleprous, male, 0; female, 1; paroled, male, 8; female, 3; total, 12. Leprous, 42.

SECOND.

Date: 1906.1

Residence: Leper Settlement, Molokai.

Place of reexamination: Kalihi receiving station.

Board of examining physicians: Kalihi. Number reexamined: 12. Results: All declared leprous.

THIRD.

Date: 1908.

Residence: Leper Settlement, Molokai.

Place of reexamination: Kalihi receiving station.

Board of examining physicians: Same as above noted for 1906.

Number reexamined: 16.

Results: Paroled, male, 10; female. 6; total, 16.

FOURTH.

Date: 1909.

Residence: Leper Settlement, Molokai.

Place of reexamination: Leper Settlement, Molokai.

Board of examining physicians: Drs. Wayson, Hayes, and Goodhue.

Number reexamined: 140.

Results:

Declared nonleprous, male, 1; female, 1. Paroled, male, 39; female, 16; total. 55.

Leprous, 84.

FIFTH.

Date: 1918.

Residence, Leper Settlement, Molokai,

Place of reexamination: Leper Settlement, Molokai.

Board of examining physicians: Drs. McCoy, Barnes, and Jackson.

Number reexamined: 22.

Results:

Declared nonleprous, male, 1; female, 2; total, 3.

Paroled, male, 4; female, 2; total 6. Leprous, 13.

SIXTH.

Date: 1915.

Residence: Leper Settlement, Molokai.

Place of reexamination: Leper Settlement, Molokai.

Roard of examining physicians: Drs. McCoy, Hollmann, and Goodhue.

Number reexamined: 33.

Results:

Declared nonleprous, male 1; female, 1, Paroled, male, 10; female, 5; total. 15.

Leprous, 17.

SEVENTH.

Date: 1917.

Residence: Leper Settlement, Molokai.

Place of reexamination: Leper Settlement, Molokai.

Board of examining physicians: Drs. Sanborn, E. S. Goodhue, and W. J. Good-

hue.

Number reexamined: 80.

Declared nonleprous, male, 0; female, 1; total 1.

Paroled, male, 5; female 7; total 12.

Leprous, 17.

¹ It may be pertinent here to note that out of the 12 patients of the Leper Settlement, Molokai, sent to Kalihi receiving station for reexamination in 1906, selected by myself as probably nonleprous, and there declared leprous and returned to the Leper Settlement as leprous, 11 of this lot were again sent to Kalihi receiving station in 1908, together with 5 other residents of the Leper Settlement, Molokai, and were there by the board of examining physicians declared nonleprous.

Results:

To

The following data with reference to reexaminations both at Kalihi Receiving Station and at Molokai Leper Settlement may here be noted:

- (1) A. G. (F) Declared leprous at Kalihi Receiving Station, date unknown, but previous to or about 1897 was sent to leper settlement, Molokai. Declared nonleprous in 1908 at Molokai.
- (2) J. N. (M) First declared leprous at Kalihi Receiving Station in 1900. Sent to Kalihi Receiving Station from Molokai Leper Settlement in 1903 and was released, and later returned to Molokai Leper Settlement in 1909 as leprous.

(8) J. K. (M) Declared leprous at Kalihi Receiving Station in 1896 and sent to Molokai Leper Settlement. Returned to Kalihi Receiving Station for reexamination in 1904 and declared nonleprous.

- (4) S. M. (M) Declared leprous at Kalihi Receiving Station (date uncertain), but about 1904 returned to Kalihi Receiving Station for reexamination from Molokai Leper Settlement and declared nonleprous in 1907.
- (5) C. A. (F) Declared leprous in 1900 at Kalihi Receiving Station. Returned to Kalihi Receiving Station in 1903 from Molokai Settlement for reexamination and again declared leprous there. In 1908 again sent to Kalihi Receiving Station for reexamination and declared non-leprous.

(6) J. K. W. (M) Declared leprous at Kalihi Receiving Station between 1894 and 1895 and sent to Molokai Leper Settlement. Returned to Kalihi Receiving Station for reexamination and declared nonleprous in 1908.

(7) P. A. (M) Declared leprous in 1900 at Kalihi Receiving Station. Returned to Kalihi Receiving Station in 1903 for reexamination and again declared leprous. After six years' residence at Molokai Leper Settlement was declared nonleprous in reexamination of 1909 at Molokai Leper Settlement.

(8) P. (M) Declared leprous in 1906 at Kalihi Receiving Station and sent to Molokai Leper Setlement. Declared nonleprous in 1909 at Molokai Leper Settlement.

- (9) M. M. (M) Declared leprous in 1902 at Kalihi Receiving Station and sent to Molokai Settlement. Declared nonleprous in 1913 at Molokai Leper Settlement.
- (10) K. L. (F) Born in leper settlement, Molokai. Declared leprous, date uncertain. Declared nonleprous in 1913 at leper settlement, Molokai.
- (11) O. M. (F) Born in leper settlement, Molokai. Sent to Kalihi Girls' Home and later declared leprous at Kalihi Receiving Station in 1909 and sent to Molokai Leper Settlement.

(12) L. (M) Declared leprous in 1904 at Kalihi Receiving Station and sent to Molokai Leper Settlement. Declared nonleprous in 1909 at Molokai Leper Settlement.

(18) K. (F) Declared leprous in 1905 at Kalihi Receiving Station and sent to Molokai Leper Settlement. Declared nonleprous in 1917 at Molokai Leper Settlement.

The remaining patient of the original 12 being unwilling to make the trip to Kalihi in 1908 was reexamined at leper settlement, Molokai, in 1909 and also declared nonleprous.

recapitulate: Total number reexamined from 1903 to 1918 Total number declared leprous	185	813
Grand total discharged	128	318
Total number declared nonleprous returned as leprous Total number declared nonleprous (paroled) returned as	_	919
leprous	5	•
Grand total returned as leprous Percentage of those paroled returned as leprous Grand total percentage of those returned as leprous		0.0434 +

Let it be noted of the total of 313 cases reexamined, 6 patients are to be added to make the above total, who were sent to Kalihi individually at different

times during the period.

In conclusion I wish to express deep appreciation to the president and members of the board of health for uniform support and courtesy; also to the superintendent of the leper settlement for his cheerful and uniform cooperation.

Respectfully.

W. J. GOODHUE, M. D.

UNITED STATES PUBLIC HEALTH SERVICE.

The activities of the United States Public Health Service in the Hawaiian Islands for the fiscal year ended June 30, 1918, were as follows: (1) National quarantine; (2) marine hospital relief; (3) medical examination of immigrants; (4) plague laboratory; (5) physical examination of applicants for marine licenses and other Government positions.

General.—During the year 7 vessels arrived with histories of having had smallpox on board during the voyage, while 3 vessels

arrived with leprosy.

A total of 609 vessels were boarded and inspected upon arrival at ports of entry as follows: Honolulu, 527; Hilo, 34; Kahului, 25; Mahukona, 3; Lahaina, 1; and Koloa, 12, while 7 vessels were spoken and passed at Honolulu and 43 were boarded and passed on medical officer's certificates.

Port sanitary statements to the number of 688 were issued to departing vessels at Honolulu, 70 at Hilo, 40 at Kahului, 6 at Mahukona, 3 at Lahaina, and 15 at Koloa.

Eight Panama Canal Zone bills of health were issued at the sev-

eral ports during the year.

A few statistics in this connection are shown in the following:

Port sanitary statements issued	688
Crew inspected	64, 546
Passengers inspected	80, 930
Vessels inspected	609
Vessels disinfected and fumigated	180

Contagious diseases.—Of vessels which arrived during the year, 127 had contagious and infectious diseases on board, there being 60 cases of measles, 39 of mumps, 1 of diphtheria, 2 of scarlet fever, 3 of epidemic cerebrospinal meningitis, 2 of pertussis, 19 of varicella, 109 of tuberculosis, 14 of typhoid fever, and 3 of erysipelas.

Of this number there occurred amongst the personnel of transports 55 cases of tuberculosis, 29 of mumps, 29 of measles, 2 of

varicella, and 9 of dysentery.

These cases were mostly removed at this port and taken to the department hospital, while those occurring on other vessels were reported to the board of health and passengers detained on board until the cases had been acted upon by a representative from that service.

Deaths on arriving vessels.—A total of 57 deaths occurred on vessels at this port during the year, of which 7 were from tuberculosis, 2 apoplexy, 1 syphilis, 3 cancer, 4 beriberi, 14 pneumonia, 1 fracture, 6 bronchitis, 3 rheumatism, 1 malnutrition, 5 heart disease, 1 stillborn, 1 asthenia, 1 smallpox, 1 intestinal obstruction, 2 ulcer of stomach, 1 cerebrospinal meningitis, 1 septicæmia, 1 suffocation, and 1 from gastritis.

During the year 12 vessels arrived from Atlantic ports by way of the canal, while 7 departed from the islands for ports on the east coast of the United States. This is a reduction of 57 vessels as compared with the record of the preceding year.

Fumigation for mosquitoes.—Fumigation for the destruction of mosquitoes of vessels from ports on the west coast of Mexico, Central and South America, was continued during the year, a total of

14 vessels being thus treated.

Cremation.—The remains of 12 persons were cremated at the quarantine station during the year, the following being the causes of death, namely: Leprosy, 5; ptomaine poisoning, 1; typhoid fever, 1;

pulmonary tuberculosis, 2; pneumonia, 2; septicæmia, 1.

Plague on the island of Hawaii.—Plague was again reported only from the island of Hawaii. Here it has been present for the past 18 years, and, as in the past, it continued to remain localized to the Hamakua district.

There were 4 cases of human plague reported during the year,

with a fatal termination in each case.

The Territorial board of health instituted the most energetic measures in all cases, additional rat trappers being employed, and a very extensive poisoning campaign was carried out.

There were 24 plague-infected rodents obtained during the year from the Hamakua district, of which 2 were found in July, 1 in August, 14 in September, 4 in October, 2 in March, and 1 in May.

Rat campaign.—A total of 16,275 rats and mongoose were destroyed in the district of Honolulu during the year, of which 16,006 were trapped, 104 were killed in the fumigation of vessels, 3 were found dead and brought in by outsiders, 27 were shot from trees, while 136 mongoose were taken.

This was a decrease of 1,255 rodents from the number obtained

the previous year.

Immigration.—A total of 4,185 immigrants were inspected at this port and 257 were certified for diseases or disabilities in accordance with the immigration law.

NATIONAL GUARD OF HAWAII.

The fiscal period ending June 30, 1918, was undoubtedly the most momentous in the entire history of the National Guard of Hawaii. The outstanding feature of the year was the drafting into Federal service on June 1, 1918, of the First and Second Regiments, Hawaiian Infantry, National Guard, with attached medical detachments.

Another prominent feature, although greatly overshadowed by the federalization of the guard, was the encampment of the First Hawaiian Brigade at Kawailoa, Oahu, during November, 1917, this being the first time in the history of the Territory when such a large body of civilian soldiers had been congregated in one camp.

Probably the most important feature during the year, as affects the guard in the future, has been initial steps in the organization of a new guard regiment and a company of Coast Artillery. Plans were set in motion for this new organization almost before the First Regiment had moved out of the armory, and there is every indication that the new regiment will be a reality in the not distant future.

FEDERALIZATION OF GUARD.

During the year considerable conflicting information was received in the office of the adjutant general relative to the federalization of the National Guard of Hawaii. A majority of this information pointed to the nonfederalization of the local guard organization, and every effort was made by all loyal Americans in the Territory to bring about the event of June 1, 1918. Information was received in the office of the adjutant general to the effect that the First and Second Regiments were to be federalized June 1, on the evening of May 31, at about 8 o'clock.

A meeting was called to which was invited field and staff officers of the First Regiment, and the matter of mobilization discussed for several hours. During this discussion, it developed that there were a number of officers in the First Regiment whom it was not deemed expedient to take into Federal service with the organization. These officers were discussed at considerable length and the meeting resolved itself into a committee to act, and the field and staff officers of this regiment decided on their own regimental organization.

The commanding officer of the Second Regiment and the majors commanding the battalions on Maui and Kauai met in the office of the adjutant general the morning of June 1, and took similar action on the Second Regiment, a few changes being made in this organization

It is believed that the action referred to in the two preceding paragraphs was the only logical action and gave to the organizations drafted into Federal service the best available roster of officers.

The following figures show the strength of the two regiments as drafted into Federal service, including medical personnel:

	Officers.			Enlisted men.		
	Reported.	Rejected.	Accepted.	Reported.	Rejected.	Accepted.
First Infantry	52 53	0	52 49	1,384 1,741	377 288	1,047 1,468

These figures show that exactly 20 per cent of the enlisted men were rejected, but this does not necessarily mean that this percentage was physically unfit, as a number of the rejections were made due to the fact that the men had served a prison sentence. A number of these same men who were rejected in the guard organization have since been drafted into Federal service through the selective-draft operation, it being apparent that the regulations are less stringent than those governing the federalization of National Guard organizations.

The organizations not called into Federal service are the engineer company, the signal corps company, the cavalry troop, brigade headquarters, dental corps, and staff corps and departments.

It has been recommended by this office that the cavalry troop which is located on the Parker Ranch at Kamuela, Hawaii, be disbanded, and it is probable that such action will be approved by the War Department. The reason for this recommendation is the fact that the troop of cavalry has long since ceased to take any interest

in military work, largely a result of the management of the ranch having undertaken extensive agricultural operations in connection with the war.

The work of mobilization of the First Infantry was quickly accomplished, the organization going into company rendezvous at the armory the morning of June 1 and moving into Camp Armstrong the morning of June 5. This latter movement could easily have been consummated on the 2d or 3d of June had same been desired by the

Army authorities.

The task of bringing the Second Infantry into Honolulu for mobilization reflects great credit upon the Territorial quartermaster and his corps. A schedule was quickly arranged and carried out as arranged. The troops commenced arriving in Honolulu on June 8, and continued to arrive by each succeeding interisland steamer until June 18.

ANNUAL ENCAMPMENT.

The annual encampment for 1917 was held at Kawailoa, Oahu, from November 9 to 30, inclusive, each organization in the entire brigade being in camp for a period of not less than 15 days. A large corps of officers and noncommissioned officers was detailed to the work of instructing the two Infantry regiments and troop of Cavalry, and a great deal of benefit resulted from this encampment. Many errors occurred which were corrected as rapidly as possible, and following the encampment, an officers' school was instituted two nights each week, and continued until federalization became an assured fact. These schools, conducted by Maj. E. F. Witsell, United States Army, senior inspector-instructor, covered a wide range of subjects and resulted in the National Guard being called into Federal service in a much more efficient condition than would have been possible at an earlier date.

NEW GUARD ORGANIZATION.

The contemplated organization of the Fifth Infantry, which incidentally is numbered the Fifth on account of the Hawaiian National Guard having previously boasted a First, Second, Third, and Fourth Regiment, will be distributed throughout the entire Territory.

It is proposed at the present time to place one battalion on the island of Hawaii in the vicinity of Hilo, with the balance of the regiment in Honolulu, excepting two companies, one on Maui and one on Kauai.

Under the regulations laid down in circulars No. 3 and No. 8 of the militia bureau, 1918 series, the new regiment will not be called upon for over-seas service, but will be held for home defense only. This fact should prove a big factor in recruiting the organization up to the desired strength.

UNITS NOT FEDERALIZED.

The organizations remaining with the Territory after mobilization of the first and second regiments are the brigade headquarters, staff corps and departments, signal corps company, corps of engineers, and troop of cavalry. It is probable that a recommendation for the disbandment of the engineer corps will be made later, as this organization has never been efficient. By the disbanding of the engineers and cavalry it would be possible for the Federal Government to take over a large amount of equipment that could probably be used to good advantage elsewhere. Brigade headquarters should now be disbanded for the reason that the brigade organization is gone. Staff corps and departments will continue to function with the organization of the new regiment and coast artillery.

PRESENT STRENGTH.

The strength of the National Guard of Hawaii June 30, 1918, is: Officers, 26; enlisted men, 329.

UNITED STATES INTERNAL-REVENUE SERVICE.

During the half month between the organization of Territorial government and the beginning of the first complete fiscal year the collections amounted to \$7,454.80.

The following tables show the statistics in regard to this service:

Special tax stamps and certificates of registry issued.

Rectifiers of less than 500 barrels per annum	. 5
Wholesale liquor dealers	
Retail liquor dealers	201
Wholesale dealers in malt liquors	2
Retail dealers in malt liquors	
Brewers of 500 barrels or more per annum	
Brewers of less than 500 barrels per annum	1
Wholesale dealers in uncolored oleomargarine	1
Manufacturers of playing cards	
Wholesale dealers in denatured alcohol.	
Manufacturers of cigars	1
Licensed organizations to collect foreign income	
Brokers	
Customhouse brokers	
Pawnbrokers	3
Shipbrokers	
Proprietor of theaters, at \$12.50	21
Proprietor of theaters, at \$25.00	
Proprietor of theaters, at \$37.50	
Proprietor of theaters, at \$50.00	
Proprietor of theaters, at \$75.00	10
Proprietor of theaters, at \$100	5
Proprietor of public exhibitions	39
Proprietor of billiard and pool rooms	
Manufacturers of cigars, at \$2.00	1
Importers and manufacturers of narcotics	1
Druggists and dispensaries	63
Physicians, dentists, and veterinarians	179
Total	000

	1917	1918	Total, 1901- 1918.
Collections on lists.	\$18,964.00	\$1,464.22	\$101, 583. 55
Fermented liquors		55, 548, 04	452, 643, 43
Distilled spirits		192, 547, 75	621, 760, 42
Cigars and cigarettes.	94.58	3,511.80	15, 572. 58
Tobacco and snuff		19, 287, 50	64, 683, 63
Special taxes, regular		3,397.67	293, 535. 09
Special tax Oct. 22, 1914	8, 372, 41		35, 385. 98
Special tax Oct. 22, 1914 Special taxes on narcotics. Playing cards. Documentary stamps (June 12, 1898). Documentary stamps (Oct. 22, 1914). Proprietary stamps (Oct. 22, 1914). Proprietary stamps.	246.01		717.70
Playing cards	754.02	1.647.75	15, 385, 77
Donumentary stamps (Tune 19, 1908)		1,010	68, 042, 60
Documentary stamps (Oct. 22, 1014)	15 619 58		92, 894, 86
Proprietary stamps (Oct. 22, 1014)	128 75		4, 938, 80
Proprietary stamps	120.70		11. 267. 34
Corporation income tax	909, 818, 58	7, 146, 693. 82	9, 287, 671, 30
Individual income tax.	363, 880. 70	1, 484, 700. 18	2,040,759.49
Wine stamps (Oct. 22, 1914)	31.281.84	1, 202, 100. 10	114, 485. 08
Opium order forms	20.30	15.00	124.80
Bankers' special taxes	2 226 24	20.00	9, 772, 61
Canital stock tax	50 721 12	120, 856. 89	171, 578. 02
Capital stock tax. War excess profits	00, 121. 10	330, 047, 73	330, 047, 73
Estate tax.		72, 435, 15	72, 435. 15
Wine			109, 788, 25
WILLC		1,353.61	1.353.61
Rectified spirits		1,353.01	3, 666, 25
Decima takes, Sept. 6, 1910		3,666.25	0,000.40
Western on admissions and dues Det 3, 1917		24,045.13	24, 045. 13
War tax on summasions and dues, Oct. 3, 1917		\$9,847.20	39, 847. 25
Pocumentary stamp, Sept. 8, 1916, and Oct. 3, 1917 War tax on admissions and dues, Oct. 3, 1917 War tax public utilities War tax beverages, Oct. 3, 1917	07,764.49		67, 764. 49
War tax Deverages, Oct. 5, 191/	1,009.28		1,069.28
War excise tax	7, 153. 18]	7, 153. 18
Total	1,534,675.38	9, 686, 840. 94	14,059,978.87

UNITED STATES CLIMATOLOGICAL SERVICE.

All of the regular work of the Weather Bureau was successfully accomplished without interruption, and considerable progress was made on a number of new projects. The weekly, monthly, and annual publications of the Hawaii Section were maintained regularly as heretofore.

The cooperation of the bureau with the United States Navy, whereby Honolulu air pressure, temperature, state of the weather, direction and velocity of the wind are sent broadcast via wireless four times

daily, has been maintained without lapse.

Daily weather reports were cabled to Honolulu throughout the year from Midway Island and were received in tabulated form as monthly reports by mail from April, May, and June from Fanning Island. One hundred and fifty cooperative stations were maintained throughout the year in the Hawaiian Islands, all of which recorded daily rainfall and many of which recorded the maximum and minimum temperature, prevailing direction of the wind, character of the daily weather, and miscellaneous phenomena in addition to rainfall.

The distribution of the 150 substations of the section follows: Hawaii, 47; Kauai, 27; Lanai, 1; Maui, 33; Molokai, 2; Oahu, 40. Forty of these observers at the substations, in addition to their faithfully performed duties in rendering their regular monthly reports, send in weekly card reports on weather and crop conditions for publication in the weekly bulletin issued from the Honolulu office of the Weather Bureau. These are distributed as follows: Hawaii, 20; Kauai, 6; Maui, 4; Oahu, 10.

Wind velocity records were maintained throughout the year at Haiku Experiment Station, near Haiku, Maui; Hawi Mill, Hawi, Hawaii, and at the weather bureau office, Honolulu. Wind velocity studies in connection with these records, in addition to consideration of the prevailing winds over the islands, should prove to be valuable

adjuncts in determining the relation of wind to vegetation.

The revised form of the Weekly Weather and Crop Report was continued throughout the year and proved to be quite satisfactory for the use intended. A distinct change in the form of the monthly bulletin, known as Climatological Data, was introduced in the May, 1918, issue, which is thought to add materially to the usefulness of the publication—especially for comparison purposes with like months for the past years.

Attention is invited to the text or opening page of the May issue of the report mentioned, and to the "sums and means" by islands

appearing in the bodies of the tables.

Twice daily water temperature readings were made at Waikiki Beach, Honolulu, during most of the year. The thermometers were supplied by the Weather Bureau, while employees of the Moana Hotel made the readings at the end of the long pier extending out from near the bathhouse. These readings should prove interesting to all tourists and residents.

A word of appreciation is due to all those who cooperated in the valuable climatological work at the 150 substations, as well as those who participated in the special cooperative work, representing the United States Magnetic Survey, the Naval Radio Station, Pearl Harbor, the Kilauea Volcano Observatory, and the United States Agricultural Experiment Stations near Haiku, Maui, and at Glenwood, Hawaii.

Very truly, yours,

C. J. McCarthy,

Governor of Hawaii.

APPENDIX.

TERRITORIAL REGISTER AND DIRECTORY.

TERRITORIAL OFFICIALS.

EXECUTIVE.

C. J. McCarthy, governor.

C. P. Iaukea, secretary. Arthur G. Smith, attorney general.

Delbert E. Metzger, treasurer. B. G. Rivenburgh, commissioner of public lands.

Lyman H. Bigelow, superintendent of public works.

H. W. Kinney, superintendent of public instruction.

M. G. K. Hopkins, auditor.

W. E. Wall, surveyor. W. P. Jarrett, high sheriff.

John F. Stone, private secretary to governor.

DELEGATE TO CONGRESS.

J. K. Kalanianaole.

JUDICIAL.

J. L. Coke, chief justice supreme court. R. P. Quarles, associate justice supreme court.

S. B. Kemp, associate justice supreme

C. W. Ashford, first judge, first circuit. W. S. Edings, second judge, first circuit

W. H. Heen, third judge, first circuit.

L. L. Burr, judge second circuit, Wailuku, Maui. J. W. Thompson, judge third circuit,

Kailua, Hawaii.

C. K. Quinn, judge fourth circuit, Hilo, Hawaii.

L. A. Dickey, judge fifth circuit, Lihue, . Kauai.

LEGISLATIVE.

Senate.—C. F. Chillingworth (president), A. L. Castle, E. W. Quinn, S. P. Correa, R. W. Shingle, M. C. Pacheco, R. H. Makekau, S. L. Desha, Robert Hind, G. P. Kamauoha, H. A. Baldwin, W. T. Robinson, G. P. Cooke, J. H. Coney, M. A. Mikaele.

House.—H. L. Holstein (speaker), C. H. Cooke, L. Andrews, J. K. Jarrett, C. N. Marquez, T. H. Petrie, G. P. Wilder, R. Ahuna, E. K. Fernandez, Joseph Kalana, D. M. Kupihea, W. E. Miles, W. F. Mossman, H. L. Kawewehi, E. da Silva, N. K. Lyman, B. H. Kelekolio, J. Leal, E. K. Kaaua, G. K. Kawaha, A. F. Tavares, E. Waiaholo, J. Brown, jr., L. L. Joseph, M. G. Paschoal, J. J. Walsh, J. K. Lota, J. K. Kula, C. H. Wilcox, J. de C. Jerves.

MISCELLANEOUS.

BOARD OF AGRICULTURE AND FORESTRY.

Arthur H. Rice (president), J. M. Dowsett, W. M. Giffard, A. L. C. Atkinson, H. M. von Holt.

BOARDS OF APPRAISERS.

Oghu.-J. E. O'Connor, F. E. Steere, Irwin H. Beadle. Haroaii.—A. S. Le Baron Gurney, Benjamin Rose, Thomas E Cook.

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² Harry Irwin was appointed on August 31 to succeed Arthur G. Smith, resigned.

COMMISSIONERS OF BOUNDABLES.

First and second judicial circuits, M. D. Monsarrat; third judicial circuit, J. A. Matthewman; fourth judicial circuit, W. H. Smith; fifth judicial circuit, L. A. Dickey.

CIVIL SERVICE COMMISSION FOR THE CLASSIFIED SERVICE OF THE BOARD OF HEALTH.

F. F. Hedemann, W. C. McGonagle, W. Wolters.

BOARD OF REGENTS OF THE COLLEGE OF HAWAIL

W. R. Farrington (chairman), Arthur G. Smith, Mrs. J. R. Ashford, A. Gartley, C. R. Hemenway.

COMMISSIONERS OF DEEDS.

California, T. W. Hobron; New York, Frank R. Benner, jr.; Pennsylvania, Louis Karstaedt; Washington, D. C., G. S. Grossman; Province of Quebec, Canada, Adolph Michelson.

BOARD OF DENTAL EXAMINERS.

M. E. Grossman, O. E. Wall.

FAIR COMMISSION.

G. H. Angus, H. Rice, J. Henderson, A. H. Case.

COMMISSION TO INVESTIGATE FEEBLE-MINDEDNESS.

F. C. Atherton, W. L. Whitney, A. L. Andrews, Mrs. W. W. Thayer, Mrs. F. E. Steere.

COMMISSIONERS OF PENCES.

Oahu.—Ewa and Waianae: C. A. Brown, E. O. White; Waialua: W. B. Thomas, R. Kinney; Honolulu: J. Markham.

Hawaii.—South Kona: L. P. Lincoln, E. K. Kaaua, A. Haile; Kau: J. T. Nakai, G. J. Becker, George Campbell; North Kona: A. S. Wall, T. Silva, J. Kaelemakule; North Kohala: W. S. May, E. K. Kanehailoa, E. K. Akina; Puna: G. D. Supe, H. J. Lyman; Hamakua: W. J. Rickard, A. L. Moses, J. K. White.

Maui.-Makawao: Edgar Morton, W. Henning, J. E. Pires; Molokai: H. R. Hitchcock, J. G. Munro, S. Fuller.

FOOD COMMISSION.

J. D. Dole (chairman), F. E. Blake, C. G. Bockus, W. H. Hoogs, Akaiko Akana, J. Waterhouse, Dr. W. D. Bal-win, C. A. Rice.

COMMISSION ON GAME AND FISHERIES.

Oahu.—H. Gooding Field, A. H. Rice.

Hawaii.-G. J. Richardson.

Kauai.-C. A. Rice.

Maui.-D. T. Fleming.

BOARD OF HARBOR COMMISSIONERS.

L. H. Bigelow (chairman ex officio), D. E. Metzger, N. Watkins, J. Wakefield. W. H. McClellan.

BOARD OF HEALTH.

S. S. Paxson (president), Harry Irwin (ex officio), G. P. Denison, F. E. Trotter, W. C. Hobdy, J. Markham, G. J. Waller, jr.

BOARD OF IMMIGRATION, LABOR, AND STATISTICS.

E. H. Wodehouse (president), F. L. Waldron, A. L. C. Atkinson, M. M. Johnson; R. A. Kearns, commissioner of immigration.

INDUSTRIAL ACCIDENT BOARDS.

Honolulu.—A. J. Campbell, F. O. Boyer, A. J. Wirtz, F. E. Steere, R. B. Booth.

Havaii.—W. J. Stone, D. Ewaliko, B. K. Baird, H. A. Truslow, James Webster.

Kauai.-E. E. Mahlum, H. H. Brodie, J. H. Moragne, J. M. Lydgate.

Maui.-W. J. Cooper, G. Freeland, W. A. McKay, G. Weight, W. H. Field.

BOARD OF INDUSTRIAL SCHOOLS.

W. L. Whitney (chairman), V. Franckx, Mrs. F. W. Macfarlane, Mrs. A. Lewis, jr., C. G. Heiser, jr., Judge W. H. Heen (ex officio), Mrs. B. L. Marx.

COMMISSIONERS OF INSANITY.

G. Herbert, L. J. Warren, C. B. Cooper.

BOARD OF COMMISSIONERS FOR LAHAINALUNA SCHOOL.

D. C. Lindsay (chairman ex officio), H. McCubbin, W. D. Baldwin, C. C. Crowell,

TRUSTEES OF THE LIBRARY OF HAWAII.

C. H. Atherton (president), A. Gartley, Mrs. E. C. McCandless, W. D. Westervelt, F. E. Blake, H. B. Restarick, A. Lewis,

BOARDS OF LICENSE COMMISSIONERS.

Honolulu.—R. A. Cooke, J. O. Carter, C. A. Long, L. M. Vetlesen, F. D. Lowrey.

Havasi.—T. C. White, R. T. Guard, J. A. M. Osorio, S. P. Woods, J. T. Moir.
Maui.—D. C. Lindsay, C. D. Lufkin, T. B. Lyons, D. H. Case, W. F. Kaae.
Kauai.—B. D. Baldwin, W. D. McBryde, G. N. Wilcox, W. H. Rice, sr.,
W. F. Sanborn.

LOAN FUND COMMISSIONS.

Ochu.—L. H. Bigelow (chairman ex officio), J. J. Fern (ex officio), A. D. Castro, E. G. Duisenberg, Lester Petrie.

Hawaii.—L. H. Bigelow (chairman ex officio), P. W. P. Bluett, F. R. Greenwell, O. L. Sorenson, H. B. Mariner, A. C. Wheeler.

Maui.—L. H. Bigelow (chairman ex officio), P. Cockett, R. A. Wadsworth, W. F. Pogue.

Kauai.—L. H. Bigelow (chairman ex officio), H. D. Wishard, A. Menefoglio, F. Gay, W. D. McBryde.

DISTRICT MAGISTRATES.

Oahu.—Honolulu: J. B. Lightfoot, A. D. Larnach; Ewa: S. Hookano; Koolauloa: J. L. Paoo; Waialua: E. Hore, W. S. Wond; Koolaupoko: J. K. Paele, H. C. Adams; Waianae: B. P. Zablan.

Hawaii.—South Kona: R. Makahalupa; South Hilo: T. E. M. Osorio, W. H. Smith; North Kohala: R. H. Atkins; North Kona; D. K. Baker; Puna: J. S. Ferry, S. H. Haaheo; Kau: W. H. Hayselden; South Kohala: T. N. Naleilehua; North Hilo: E. K. Simmons; Hamakua: Henry Hall, M. S. Botelho.

Ferry, S. H. Hanne; Kau: W. H. Hayseiden; South Rohan: T. N. Naterienua;
North Hilo: E. K. Simmons; Hamakua: Henry Hall, M. S. Botelho.
Kauai.—Lihue: J. L. Hjorth, J. H. Kaiwi; Waimea: C. B. Hofgaard, J. K.
Kapuniai; Kawaihau: R. Puuki; Hanalei: W. Huddy; Koloa: S. K. Kaulili.
Maui.—Makawao: J. G. Anjo, G. K. Kunukau; Hana: H. E. Palakiko,
G. P. Kauimakaole; Lahaina: C. B. Cockett; Wailuku: W. A. McKay, H. C.
Mossman; Molokai: C. C. Conradt; Kalawao: J. D. McVeigh.

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Fourth and Atth representative districts.—S. F. Chillingworth (chairman), A. V. Gear, W. W. Buckle.

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TREASURY DEPARTMENT.

Oustoms division.—Collector, M. A. Franklin; special deputy collector, R. Sharp.

Internal-Revenue Service.—Collector, H. Hathaway; chief deputy collector, W. G. Ashley, jr.

Public Health Service.—Surg. F. E. Trotter; leprosy investigation, Surg. H. T. Hollmann.

DEPARTMENT OF AGRICULTURE.

Havoaii Experiment Station.—Agronomist in charge, J. M. Westgate. Weather Bureau.—Meteorologist in charge, L. H. Daingerfield.

DEPARTMENT OF LABOR.

Immigration Service.-Inspector in charge, R. L. Halsey.

DEPARTMENT OF COMMERCE.

Lighthouse Service.—Superintendent of lighthouses, nineteenth lighthouse district, A. E. Arledge.

GEOLOGICAL SURVEY.

C. T. Bailey, district engineer in charge Hawaii district.

DEPARTMENT OF JUSTICE.

United States district court.—J. B. Poindexter, H. W. Vaughan, judges; S. C. Huber, district attorney; J. J. Banks, assistant district attorney; J. J. Smiddy, marshal; A. E. Harris, clerk.

WAR DEPARTMENT.

HAWAIIAN DEPARTMENT.

Brig. Gen. Augustus P. Blocksom, United States Army, commanding.

Aides-de-camp.—First Lieut. Chauncey F. Cleveland, Infantry; First Lieut. Philip L. Rice, Infantry.

Department Staff.—Col. Henry C. Merriam, chief of staff; Maj. Charles W. C. Deering, department adjutant; Col. Charles G. Woodward, department inspector; Maj. Ingram M. Stainback, department judge advocate; Col. Gonzalez S. Bingham, department quartermaster; Col. Rudolph G. Ebert, department sur-

geon; Lieut. Col. Robert R. Raymond, department engineer; Lieut. Col. Charles G. Mettler, department ordnance officer; Capt. William T. Peyton, acting department signal officer; Maj. Richard S. Bryan, department sanitary inspector;

Maj. James D. Dougherty, officer in charge of militia affairs.

Additional staff.—Maj. Walter L. Reesman, Dental Corps, dental surgeon; Maj. Charles B. Cooper, medical adviser to Governor of Hawaii; Capt. Lloyd E. Case, department veterinarian; Capt. Frank P. Baldwin, attending surgeon; Capt. Nelson H. Duval, assistant to department engineer; Capt. Fred B. Buckley, assistant to department quartermaster; Capt. Harry E. Murray, inspector ley, assistant to department quartermaster; Capt. Harry E. Murray, inspector of motor-driven vehicles; Capt. Richard Bolton, assistant to department quartermaster; Capt. Herbert E. Wescott, department reclamation officer; Capt. William A. MacNicholl, assistant to department quartermaster; Capt. Archie W. Brown, in charge of war-risk-insurance office and assistant to department adjutant; Capt. Harry G. Field, in charge of selective-draft work; Capt. William G. Allen, assistant to constructing quartermaster; First Lieut. Cyril F. Damon, assistant to chief of staff; First Lieut. Edgar Anderson, assistant to charge officer. to department insurance officer.

Attached.-Lieut. Col. George J. Oden, department casual officer, inspector of small-arms practice; Capt. John A. Baird, assistant to chief of staff; Capt. Philip Spalding, assistant to chief of staff; First Lieut. A. S. Hayward, assist-

ant to chief of staff.

First Hawaiian Brigade.—Col. Earl C. Carnahan, Twenty-fifth Infantry,

commanding.

Department Hospital.—Col. William P. Kendall, Medical Corps, commanding. Coast Defenses of Oahu.—Maj. William W. Hicks, C. A. C., N. A., com-

Fort Shafter, H. T.—Col. William C. Bennett, Second Infantry, commanding. Schofield Barracks, H. T.—Col. John W. Heard, Fourth Cavalry, commanding.

NAVAL STATION.

(Owing to censorship restrictions no roster of officers at the naval station. Pearl Harbor, is available.)

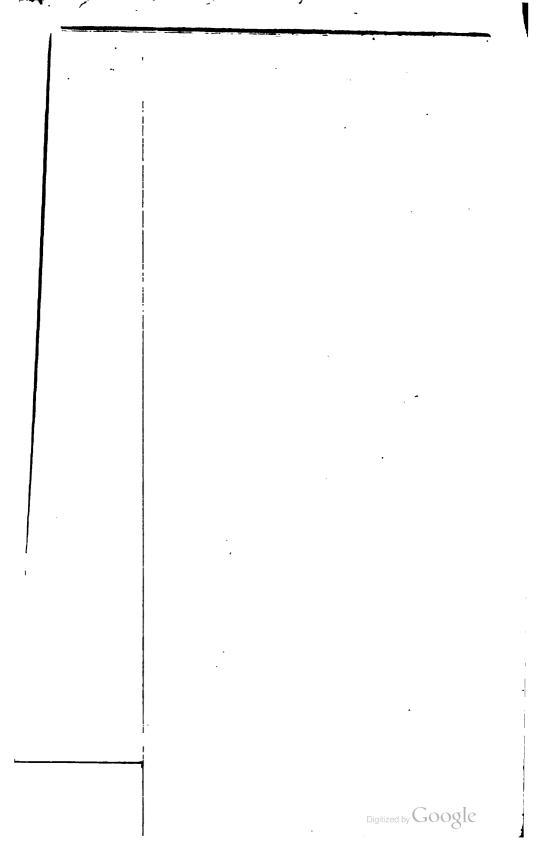
NATIONAL GUARD OF HAWAIL

Gov. C. J. McCarthy, commander in chief. Col. Will Wayne, the adjutant general.

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